

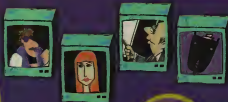
CANADA'S COMPUTER INFORMATION SOURCE

The COMPUTER PAPER

NEWS REVIEWS FEATURES

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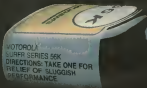
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Display Size	17" (15.6" viewable)
Dot Pitch	0.27mm
Max. Resolution	1,024 x 768 (60Hz)
Refresh Rate	60Hz to 85Hz (VESA)
Recommended Resolution	1,280 x 768 @ 67Hz



Tip of the day.

A monitor with built-in speakers and microphone is the last thing you need for today's multimedia applications. The reason you don't see teleconferencing and Internet call programs without the high cost of extra equipment. The original feature will save you space on your desk.



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Siggraph product showcase

BY JEFF EVANS

SIGGRAPH is to computer graphics what the old Comdex in Las Vegas is to "consumer" consumer technology: the most important global showcase for new products, and the greatest opportunity for revolutionary new products to get maximum exposure. At this year's show several new products stood out.

Play's Trinity Video System



After years of development, Play Inc. has begun shipping genuine mass production work at its Trinity digital video edit and effects system. The about \$2,000, the Trinity system takes care of the business Trinity Video Studio in the new standard for professional quality digital video. Trinity is actually a big blue box full of card slots, that can carry a large number of digital or analog video inputs, and—using custom chips (as its motherboard) and a variety of expensive card—processor slots and effects functions that would normally require an extremely expensive digital video editing suite.

Contact Play Inc. Web site: <http://www.play.com>

OmniQ Media/Media 1.0

OmniQ showed the Windows version of its ASI Macintosh 3-D software, claiming the new product is the first truly professional 3-D compositing program for Windows. Media

Media allows objects and graphics to be manipulated on a PC in 3D space. "Compositing" refers to the ability to use different visual elements, for example 3D or 2D animations, with live-action footage.

MediaMedia employs a process of interacting scenes from layers of elements which can be live, video graphics, still or moving images. The program is compatible with Photoshop plug-ins for a wide range of special effects, as well as high-quality layering, transparency and anti-aliasing. All in all, from top to bottom, 2,000 to 2,000 pixels.

Contact: A Media version of Mediaworld at the AGT Web site: <http://www.media.com> or the Internet multimedia store at CompuLink (<http://www.compu-link.com>)

Maxwell 3D Studio MAX R2

Autodesk, a Division of Autodesk, Inc., the publisher of Autodesk software, introduced the latest version of 3D Studio MAX for the PC. Over the past several years, the 3D Studio line of 3D modeling, rendering and animation software has become perhaps the most widely used and professional-level animation software for Windows, and somewhat to Autodesk's surprise the company's latest growing source of revenue.

The new version of 3D Studio MAX R2 claims over 1,000 new features or enhancements, including 3D/2D modeling for more realistic objects, dynamic linkages of objects to support realistic animation of bouncing, colliding, and sliding, and new feature sets for text, motion, character, and scene. 3D Studio MAX R2 has a retail price beginning at \$299.99, and an upgrade price of \$149.99.

Contact: Autodesk, Inc. 408-930-8900 Web site: <http://www.autodesk.com>

TES 3Dspace Publisher Interactive 3D Suite



Triplex Graphics Software (TGS) announced

the shipment of its new 3Dspace Publisher Interactive 3D Suite, "an integrated design and animation application set, which makes it easy for users to create interactive 3D visual for Web page CD-ROM sites, screen savers, and desktop publishing." The suite allows users to use graphics in a wide variety of product life forms, or content types, including animated GIF, VRML, 3D Acrobat, and 3D Java applets. The suite is available for Windows 95 and Windows NT for US\$249.

Contact: TES, Inc. 817-457-0202 Web site: <http://www.tes.com>

Shoulder for Windows 95 version

Superpowered Side Effect Software, publisher of the Windows 3D animation tools program, announced that a Windows version of the new program was being developed for Windows 95 users complete. Shoulder 3.0 for Windows NT is expected to have the same feature set as the Windows version, including advanced 3D modeling, high-speed rendering, lighting, compositing and animation.

Contact: Side Effect Software, Inc. 415-501-0975 Web site: <http://www.side.com>

NewTek Lightwave 3D 3.5

Light 3D is the latest version of the popular animation program, originally for the Commodore Amiga but now also for Windows 95, Windows NT, IRIX, DEC Alpha, MIPS, and Power Mac. It offers multi-threaded rendering for higher speed rendering on multiple processor systems, a "scripted" data support, "flexible" local expressions and lip sync, and Direct 3D support for Microsoft PCs.

Contact: NewTek, Inc. 800-734-7375 Web site: <http://www.newtek.com>

Matrox Digivista

The Matrox Digivista graphics card maker rolled out its new Digivista, a new professional-level graphics card product line that offers uncompromised-quality 3D video capture and playback, frame accurate NTSC output and professional audio sync.

Contact: Matrox, Inc. 800-887-4663 Web site: <http://www.matrox.com>

D'n'A's Flesh and Lighthearted



An amazing product from Microsoft's D'n'A D'n'A's is a 3D software that is a full body human capture system that does an amazingly subtle and automatic capture of finger movement, facial expressions, major body movements, and voice recording.

Capture data files can be exported to SoftImage (available as Windows 95 or UNIX), rendered as well as Alias Animation (currently available only on UNIX, however, but a Windows 95 version is said to be underway) and used to animate actual movement data to create 3D objects and characters. The flesh program is a totally new, beguiling 3D pose software, which combines precisely and accurately of body and facial movement data, flesh to 3D models, and proper for skin.

Contact: D'n'A's, Inc. 314-886-0448 Email: info@dnas.com Web site: <http://www.dnas.com>

Madison Caricature

Real-time animation (the product in real-time motion capture and animation, Madison Caricature, has moved its act to the Windows NT world, with a version of its motion capture body harness hardware and software that runs under Windows NT on a digital alpha personal workstation.

Contact: Madison Caricature, Inc. 212-250-2888

World's VR Race Simulator

World's VR Race Simulator, its latest, MadMax virtual reality simulation game in this year's SIGGRAPH. Its MadMax is an immersive reality game that uses VRML and computer technology to create a live video image of a participant into a computer-generated model, while the participant can view activity within a racing pit by getting, controlling a steering, steering, interactive experience.

Contact: VRM Group, Inc. 415-340-8790 ext. 255 Email: vr@vrhmgroup.com Web site: <http://www.vrhmgroup.com>

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"By being in a standard payphone enclosure, the Payphone Cyberbooks return the space required to provide the public with high-speed access—a real plus for locations where space is at a premium," he said. "The new payphone-based device consists of an 8000000 screen, keyboard and mouse."

Intuita LLC did company already has "about 200" systems installed in places including the

Dallas-Ft. Worth, Seattle, La Guardia, and Chicago airports. "We expect to have 500 installed by the end of the year and hope to have 3,000 within about 18 months," he said.

Indeed, here the links across the public device require modification: he said it had not been a problem. "This is not going to be an e-commerce tool," he added. "We're designed to be a public tool, not private. It's unattended, but we do

temporarily monitor it."

Intuita said using the device's secure point-to-point 33.6Kbps wireless paid through-the-air links to gateway phone cards. The Internet color panel currently lists 20 screens for sale—\$499/each.

Contact: Intuita LLC
Web site: <http://www.intuita.com>

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VIDEOCONFERENCING

Performance, I.C.B., Can M.C.H.?

Continued from page 29
 proprietary matter of when it went south, though. It's additive once you've got it, plus readily at 900K speeds.

More tests

Western Web/Copix

Quality-based Inc. Technologies' Western Web/Copix 4.0 is, merely coincidently, the first package answering you'll find 80 videoconferencing capabilities to a PC that already has a high-speed modem and an Internet account.

For this price you get a 32-bit PCI bus master video capture card, a key 24-bit color video camera built in a CCD resolution of 512x384, a built-in microphone, a video expansion port and a copy of Microsoft Networking 2.0.

The system is easy enough to hook up and install; generally, with it, Networking With Video 2.0, which is also included in the package and with the latest version that comes in Internet Explorer 4.0. The speed of the modem that you use with it, however, will have a lot to do with the quality of any videoconferencing you conduct with it.

On our test system, we used only a basic 24,000bps, external V.90 Bellcore Sprintnet modem, which gave somewhat "jumpy" video that was considerably less than the quest for faster per-second resolution. It was still a bit better than not having a picture at all, however. It appeared, over the Internet, videoconferencing could be carrying long distance without any long distance phone charges.

The camera could best be described as "cheap and cheerful" and worked well enough to produce an adequate picture, although to do so did mean looking around a little with the external focus controls on the camera. Better results will almost always be found looking up a standard camera to the "video in" port of the Western board.

In fact, after knowing that we had received the video-chasing card using a computer terminal with a \$300 40 "All in Wonder" video capture card (another fine Compaq product), we found that a worked just as well using Networking—with the additional graphics and a TV screen in the package, in that you have something to see while you are waiting for your Networking call to connect.

Overall, the Western system was fast and worked well enough—although at this price you have to consider how long a well built line good value is other videoconferencing systems may be in the market to a big way later this year. —Gus Whelan

GVG Web-Bath videography

The Vix-Tek videography from GVG Technologies takes an iMacintosh Technology digital camera and adds a capture card, interface and video interface.

The expensive pack-and-run video camera sits on top of your iMacintosh computer in the package and is a PCI card. On site options, the card worked only when installed on the first PC; not on the second. The iMacintosh interface sits in a phone, which is better.

Continued on page 32

Model	Processor	Memory	Hard Disk	Floppy Disk	CD-ROM	Video	Audio	Mouse	Modem	Monitor	Price
Express Micro™ II	100MHz 386/486	1MB to 16MB	10MB to 160MB	5.25" 1.44MB	10MB to 160MB	1MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB
Express Micro™ Pro	100MHz 386/486	1MB to 16MB	10MB to 160MB	5.25" 1.44MB	10MB to 160MB	1MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB
Express Micro™ Mini	100MHz 386/486	1MB to 16MB	10MB to 160MB	5.25" 1.44MB	10MB to 160MB	1MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB
Express Micro™ II	100MHz 386/486	1MB to 16MB	10MB to 160MB	5.25" 1.44MB	10MB to 160MB	1MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB
Express Micro™ Pro	100MHz 386/486	1MB to 16MB	10MB to 160MB	5.25" 1.44MB	10MB to 160MB	1MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB
Express Micro™ Mini	100MHz 386/486	1MB to 16MB	10MB to 160MB	5.25" 1.44MB	10MB to 160MB	1MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB
Express Micro™ II	100MHz 386/486	1MB to 16MB	10MB to 160MB	5.25" 1.44MB	10MB to 160MB	1MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB
Express Micro™ Pro	100MHz 386/486	1MB to 16MB	10MB to 160MB	5.25" 1.44MB	10MB to 160MB	1MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB
Express Micro™ Mini	100MHz 386/486	1MB to 16MB	10MB to 160MB	5.25" 1.44MB	10MB to 160MB	1MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB	10MB to 16MB



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VIDEOCONFERENCING

Real-time rendezvous with rendezview.com

BY LINDA RICHARDS

Let's pretend you're alone. And it's Saturday night and you're alone again, and not—necessarily—by choice. You don't feel like yet another host with the maverick in town. You don't want to be a good host and thereby put even less in towards love. What you want is some company; preferably of the type for that you need, not up. You just don't know where to begin.

Unfortunately you know there are lots of other people just like you, spread all over the world, yet another missing link in the chain. You want to find other people, but you don't know where to go. You know that somewhere—and maybe not that far away—is the person who would say, "Hi, you're back, and let your relatives in. I know someone who'd be worth enduring a long drive for, because for whom you could bring the party."

The question then, isn't it to be or to be right? It's how to find someone who's doing that someone thing, telling us to wait, though the most grown up. The clock, the way it stands against us. It's here, we're not to find the fit in a world of almost-ones.

This is the scenario Dated Mode from when he received CUI-Seattle into his office computer and started playing with the CUI-Seattle and CUI-Seattle editors.

The world he found there fascinated him. The 47-year-old president of WebCorp Internet Management Ltd. found himself fascinated by the convenience, possibilities of his job of PC when moved up via CUI-Seattle and a digital camera. WebCorp helps and markets Web sites, mostly for public and corporate clients. As well, the company makes space for videoconferencing in its Vancouver area. So, technology when it's not being for the business world, computer. The real-time video brought a whole new dimension to his business.

Digital rendezvous

The editors that appear on screen allow for pretty good editing. You interact a few minutes for any type of business meeting. But you require a special client, a one who's actually going on.

What you'll see there are real-time pictures of people and a single button will allow the chief person at the dialog. Audio is just like any other, but the resulting experience of many people sitting at once isn't desirable. And while CUI-Seattle is a visual quality picture perfect, the sound portion of the software will leave much to be desired. By the way, says Dated, that you need to talk a moment directly, you're better off waiting for phone, friends.

Continued on page 35

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Continued from page 34

Then, there's the matter of the international nature of the Net. While it's tedious, you have, so far, with someone on a boat below looking out that they're in Venezuela, that kind of international connections can make the process towards and from relative ease difficult. And while Vide played with CII-Secle and the international connections it helps make possible, his naturally entrepreneurial bent has decided long ago and a plan began to form.

The result of all that communications and clicking went online as a public web last month. That's when WebScope launched videonews.com, which packages a lot of easily available technology into an entirely package. The result is something that the general Internet neophyte can manage himself, while not allowing Internet experts to matters of the heart. Note that videonews.com has a lot of users.

When a videonews.com user will see on their screen is a host of icons with people's faces at them, and their names placed over

them. A single window on the screen holds the conversation that's being held, with each person's contribution being attributed to the name that corresponds with that over the picture. The resulting conversation looks just like a script, but it's surprisingly easy to follow even you get used to it.

"This is the first time in human history that can be best possible," says Kozle. The WebScope version of the Internet has brought a large non-section of technology to reality—on at least, close enough to reality for now. The Internet provides the pipes at the

network protocol. CII-Secle provides the software that lets the conversation flow as well as the Internet "reflector" where video chats are conducted from.

CII-Secle what?

CII-Secle was developed in the early 1980s at Cornell University the "CII" in CII-Secle stands for the university even though the name is clearly pronounced in a way that makes sense through the whole concept. Out loud, you say, "See you see me" which pretty

Continued on page 44

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MANAGING YOUR PAPER GLUT

The many flavors of document management

A taste test of solutions for busting through your paper jam

BY BOB LAMBEARD

Products reviewed:
 eSolutions for Windows 3.0
 List-A-Lot
 PaperDirect: Windows 2.1
 PaperMaster
 Paper Pro 1.1
 The Paperless Office
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Document management

what if your PC can see?

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AGFA
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The Problem You can't find the document you want.

The Dream You keep all documents in electronic form on your computer where they take up no space and can be located in seconds. Printing, emailing, or editing are all easy and quick.

The Reality Take a big breath, 'cause reality don't come short and pithy.

Document management starts as an elusive dream as for many. That's a good thing, but it makes reviewing one difficult. Especially when all the document management software companies are absolutely certain that their product can do it all—their advertisements loudly proclaim this to be.

But just because a program can do something doesn't mean that it is good at it or that it is the best and by a generous lot. As a matter of fact, as computer hardware becomes more powerful and software makers add more features, you get to a point where you can do almost anything from any program—but not necessarily do it well.

Confronting this situation, is the fact that no one is sure any longer what exactly constitutes a document. A typed message? What about something text-rich? Something as plain as paper? What about your word processor files? There are two pages, pictures, scans, email and other things and you begin to see the problem.

The common ground for these products is that they generally scan a piece of paper, save the resulting image and create a database for later retrieval.

Most can also import text, hypertext, markup language (HTML), Rich Text, images or other files. Some are optical character recognition (OCR) to turn scanned text back into editable text. Others are a step further in a particular way, such as images or text. Whatever they do, they all have strengths and weaknesses. They are like all things, in that their degree of sophistication is at once a strength and a weakness.

But current tools on single programs can do it all. Although in text-based document management, for example, often means a weakness in image manipulation or image base options. On the other hand, if you don't need to keep documents with images, such a program would be better suited to your application than a broad and shallow one.

Why don't software makers just make something that does it all? Although they claim otherwise, they don't because the product would be a large, slow and expensive. That would be a tough sell in a price-sensitive, aggressive, constantly evolving market.

The trick of document management is really doing your homework. A good place to start is at the companies' Web pages. But don't stop there; they will only try good

things, back for product reviews like this one.

You don't just come here, we only look at the programs for a couple of days. It would be the program that the program has. PaperDirect, List-A-Lot and Paper Pro can be downloaded from the Web for free for a few days and then if you like and buy it, you will be putting pressure on other companies to make their products available online. This would allow you to test everything before you buy. That would make companies focus on functionality and getting results, few add-ons on their Web sites, rather than beguiling sales and support with on-line bells.

The offerings

In the corporate world, where a company can have more thousands of documents to track, there are a number of high-end solutions. One such offering, DDC's Open Line, a subsidiary of PC Data Group International Inc., has a system that allows for the storage and management of hundreds of thousands of documents. The company's name, "Any-thing, anywhere, anytime," is accurate, but the solution is expensive. That's why no client has included government, multinational corporations and even top agencies.

Another player in this market is Open Text Corporation. With the natural expansion of its business in business local and remote (LANs), Open Line has introduced Open Text Edition, which is another complete, self-provide, document and information management system.

A third product we reviewed last year, Broderbund's Guide, from University Corporation has released Broderbund's List-A-Lot, a sophisticated document management program aimed at government and business users. The product is a client-server network program specializing in speed and security for clients such as legal companies and corporate offices. All three of these products are excellent in their environment but inappropriate for a small business or personal use.

The following items, programs are all the current management solutions for individuals on personal computers. They are not indicative of the available software, only representative of what is available for review. Proprietary software that is not for sale as a software-only product but, may be modified.

Continued on page 41

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MANAGING YOUR PAPER GLUT

Document management

Continued from page 38

with a scanner) is not advised.

Different programs support various scan sizes, however, support for edge-to-edge (full-sized or personal) is required. For instance, across the board, in particular, support for the PaperDirect scanner. The problem are not due to the scanner but to a driver's choice level.

The new machine has a resolution 300 dpi/300 with plenty of RAM and a Lighthouse Graphics Color edge-to-edge scanner.

The Paperless Office

from CompuLink Inc.
(Internet: www.compu-link.com)



The Paperless Office is a 32-bit document data base. Windows 95 or NT required that takes a little getting used to but is very powerful. The Paperless Office supports separate modules such as the Capture Desk, Doc Internal Desk, Doc Index/Query, Control Desk, Doc Analysis Desk, and others to perform its functions.

This series is new and may be a little confusing if he or she doesn't understand the order in which each part of the process takes place. However, it also means that jobs and functions are grouped and processed together, which can be an advantage when data is not all necessary work to be performed.

The Paperless Office has a search function but also a print one. When the product is good is in handling scanned items. The process is fast and logical and well suited. Backup Management is also very good with strong compression and a large number of different storage options, including write-able CDs and RAID drives (none are redundant). Any of Independent Drive solutions that, in a word, write data in multiple drives in a form of redundancy (no redundancy).

When the product needs improvement is in its test level and what more difficult test documents were not required. The Paperless Office is a good choice for a small business.

Zydis

from A & C Corp. of Imaging Technology Solutions
(Internet: www.a-c.com)



Zydis is a Windows 95 or NT document management system management system that works primarily as an add-on to active programs. The program organizes your documents by placing them in a ZIP file.

Database Connectivity is a feature for database synchronization (exchange) database applications.

However, the program is sold in customized software packages for various popular programs, including when using A/C 1.0.

Zydis for Goldmine, Zydis for Microsoft

Office (3.1, 95 and 97) and Zydis Desktop

Like the other programs here, Zydis is a software electronic representation of the file. It is similar to viewing. Once digitized, value by scanning or digitizing documents or images can be associated with other notes, related, related or attached. Other features include the ability to send the scan

test files in email using only 1200 for most images. The program comes with a series of wizards and an advanced online help system. Zydis Zydis shows is when combined with a program such as ACT or Goldmine. Now, adding a lot or better to see is more people is truly simple. The list or better is simply sent to the individual or group from directly within the contact manager Zydis.

for Office 97 takes all data (including Word, Excel, Access and Outlook) and organizes it into one database record. Data can be easily searched, stored, updated, or otherwise manipulated. Zydis is used at bank, the record and index with a lot of documents and the results in custom word business.

Continued on page 46

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VIDEOCONFERENCING

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Continued from page 36
 needs wrap it up in a nutshell.

Whiteboard connects to work on its CU-SeeMe project, a commercial product based on the technology it patented by White Pine Software Inc. of New Hampshire. Its Enhanced CU-SeeMe is the product most often found on commercial websites like Redwoodview. For instance, the U.S. chain of cybercafés called CyberCafé uses White Pine's CU-SeeMe as its standard for desktop videoconferencing. Road & Cart is working with White Pine to develop a directory of CU-SeeMe sites and general uses White Pine's CU-SeeMe to broadcast special events and audio-video chats.

The "viewer" portion of the suite is mostly provided by one of the most fully shaped

Connectix QuickCam. The QuickCam has been an important part of this, says Neale, because it's relatively inexpensive (the black and white version—still that's necessary for this stage of CU-SeeMe—reads for around \$300) as well as being exceedingly easy to use. The latest of both the Macintosh and PC versions of the QuickCam are about as challenging to install as a new keyboard.

World-ease remote-control users equipped with an Internet-connected computer a QuickCam, the other video input device. QuickCams are just the easiest and cheapest way to do it, says Neale. They're also easy to use and don't require much video capture board and CU-SeeMe are pretty much ready to go. All that's necessary is a map at Redwoodview for registration that is followed by activation as shown to connect to what CU-SeeMe indicates.

The full version of the CU-SeeMe software runs away to properly protect the chat room on a line, although a crippled version can be downloaded from anywhere on the net. You can get a full for free in all cases, Neale says. But users quickly become frustrated with the demo, however, because it then locks down after 15 minutes.

Though right now users are compelled to run the CU-SeeMe client within the next few minutes, Neale's Redwoodview will make it possible to use other videoconferencing packages, although it won't offer the full features of the CU-SeeMe software. Meanwhile, Neale's Redwoodview—launched with the remote version of Internet Explorer and also downloaded directly from www.redwoodview.com—will offer

only a limited view of how this-to-be-out can work. This should be enough of a sure Neale feels, to be sure. Like many other packages, Redwoodview will allow you to log into an online chat and see what's going on, but you'll only see one other person at a time.

Those who are fully equipped except for the server portion can still take a good look. Neale says that if you log on with everything but the QuickCam, you'll see everything that's going on, but you won't be able to see you. To give a full view if you want to make the full investment in your doing better, it is possible to see what it's all about without making the full commitment by checking it all out in full mode.

Neale's efforts to do this stage, the end-user version, is in line. There's a good reason why the line, to connect to the net, that Neale explains, at least several hundred users must be taking part on a somewhat regular basis. After all, they're going to see in real time for a service when they're only going to see the net. Neale says that's why many different users with different types of communication going on, usually broken down by region. Later, when the participants arrive in a room as expected, the rooms will be divided into four different areas, like "Vancouver—British" and "Toronto—Quebec" and "International" will then be the go-to for the best of it because it's expected to be able to make connections all over the world if you want to. "You can't avoid the international aspects of this thing," says Neale, although he predicts

that that has not and is to make local connections possible for people in many areas.

With the world at large, Neale feels that this aspect has been done to the point of being redundant. "There seems to be a lot of things involving going to see it."

Redwoodview.com is looking at a different part of the market, namely, "the whole focus of this aspect is to go and see it. We're not interested in the user. That's a better deal." Neale says that's why he's doing it. A general idea of Neale's vision is to create a meeting place for the whole that he would sometimes be able to do in his 15-year-old daughter had wanted to.

With that in mind, Neale says the possibility of adding a third stage, accessible by password for special interest groups, is in the air. Neale says it would be possible to set up a closed chat for an organization like Girl Scouts, where the only people able to get in are other 14-year-olds. "Connections aren't always about relationships. Sometimes it's about communication," he says. "I'm very thinking the place for that communication is what he sees Redwoodview as being all about. G.

Contact:

One report: 310-310-310
 Web site: www.redwoodview.com
 Contact: Redwoodview CU-SeeMe
 Web site: www.redwoodview.com
 Redwoodview: Web site: <http://www.redwoodview.com>



The CU-SeeMe development team has developed the CU-SeeMe software. On the left, the software interface is shown. On the right, the software interface is shown. On the right, the software interface is shown.

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MANAGING YOUR PAPER CLUT

Document management

Continued from page 41

PagePro Pro 97

Price: \$19.95 (US)

Estimated retail price: \$19.95

PagePro 97 is a Windows 95/NT program that is stored squarely in the small and basic office market. It is also a very good-looking program. As you would expect from Tivoli, with its Palo Alto Research Center (a.k.a. PARC) research interests covered the graphical user interface. In GUI, that Microsoft made famous, this program has an intuitive and friendly interface. The program installs a Reading tool, but is a self-contained toolbar. Drag and drop support is extensive throughout the program. The various dialogue boxes and drop-down options are clear and informative.

This is a clear program to work in. Due to the program's use of Tivoli's very well-accepted OCA program, PagePro 97, the character recognition is excellent. PagePro is based on a PARC development called PdfReader, which works to improve image quality to scan that includes text, as well as to minimize file size. Perhaps the strongest suit of PagePro is its searching abilities. The PageSearch tool is a work of art. This simple keyword search is state-of-the-art as an innovative subject to each tool. These boxes allow for three entries by which to search electronic documents and the documents that have been through an OCA program. When the database of files is searched—a matter of seconds once the whole hard drive has been catalogued—the results are displayed with MacDraw-like.

MacDraw as does highlight text inside each found document. The presented results may vary however where they match the search words because the MacDraw can display if more matching words were found. "Search completed" it will.

Don't forget the program searches for documents that is suggested on your system including HTML, TIF, DOC and others and adds them to the database. They are a member of other good things to say about this program but not enough space to say them. As the simple use of the small or home office user, this is the program.

PagePro Windows 2.1

MacDraw-like Core Corporation

Estimated retail price: \$29.95

PagePro for Windows 2.1 is a Windows 3.1/95 product that is excellent for getting going in the month. The 1.6-MB program was released almost two years ago and is the perfect of being upgraded after upgrade should be not someone in December. The product is the same as in our past list-of-document-intelligence and that the review is complete.

The only difference is that PagePro for Windows does not take advantage of Win 95's 32-bit database in connection. PagePro for Windows is a flexible information management program that will read OCA, import, edit, and export your data. This is a good program when it not supporting because it is made by Core, the makers of scanPage and PdfReader (two OCA programs).

The software comes in two parts.

PagePro: the work home and PDFExtract: a utility that places a PageProScan Scan, installed in most applications. This view program, when running, will allow a user to add and delete, but as a document to PagePro will not load the current program.

PageProScan itself can take a document from your scanner and save it as an image or use it through the OCA software and save it as a PDF. In both saving image/pdf documents with keywords or notes is straightforward. PagePro can support plain text, of course but also allows of different document types, although not cover more such as Word 97.

PagePro gives you the choice of importing text files into itself or leaving the files where they are and creating an external file index. Both techniques can be useful but most programs don't allow either or PagePro will also import certain saved through files, notably those that are Word 97's MHT, compiled, such as Microsoft Word or as Mail. PagePro is a good program to read of a new review.

scanPage for Windows 3.0

Tivoli Software Systems

Price: \$19.95 (US); \$19.95 (Professional)

scanPage Professional is a great program because it doesn't try to do it all. Unlike other office programs here it doesn't have built-in scanning ability. It doesn't take on image and save it into a database or under file. What it does do, and very well, is take all your different electronic files and work them up into a database. This is the best idea of software but

the reality is even better if you have a large number of HTML or various web browsing files. HTML files, DOC to convert to put in a file that you want to organize. This is the program for you.

There is also another high-profile software will take your entire database and make it into a searchable online database. You can even pay online. Because to put it in this web site.

In great all this is the best to use will allow you. The program is also a critical tool for non-application. Index will come up by searching for words, numbers, data, or equivalent but it is also a great electronic notes, contacts and management program. There is even an address book. Taking from the business world a large number of releases or applications to manage.

This is also a big professional program for use with a scanner. This is a small, accurate, fast, useful program that will allow you to get all your data in one place, actually be able to find and use the information without much work on its words, and add new data from other sources.

PageProMaster

Core Corporation

Estimated retail price: \$29.95

PageProMaster is a good little program for Windows 3.1 or higher. It does a very capable and several jobs of managing your scanned electronic files. When this program is strong is in its interface.

Continued on page 49

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MANAGING YOUR PAPER GLUT

Document management

Continued from page 46

In simple description of a content work-flow is not unique, simply better implemented than in other packages. The problem is as simple and straightforward as every program should be and as useful as the rest are. PaperMaster allows you to easily input, categorize, retrieve and output everything that you can get into your system.

The only difference between this program and the rest of the others is that PaperMaster takes no space and is easy to search. An added nice touch is that it has a free where you can document similar to one you have viewed before, the software automatically finds the paper and the exact spot. Thus, business cards always stay in the same location. The program will OCR printed text if you like, email files, or copy the images, so take this directly from your word processor. PaperMaster is a small, flexible, powerful program that is great for the home user. PaperMaster is also one of the products you can download for a free trial.

Live Access

From: Brian Hargrave

Price: Not announced and product review



Root is Montreal, Quebec Technology is better. It has the document management program for the home. Live Access, according to the company, is a "visual document management and navigation tool," which should be released by the time you read this.

The company suggests that a note-taking and retrieval tool is superior than one in the visual realm. Live Access uses Old Office (indexing and indexing) to create a visual browser, text, spreadsheet, map, and drawing, or each be collected within an Outlook as the other. Document files can be added on the hand side as well, or any other, even the Net. It doesn't matter because Live Access doesn't rely on documents and pull a web database. It simply creates a database of links to the content. This creates the overhead involved with processing and storing digital or printed (including thumbnail representation) versions of a document.

The idea means that good bandwidth is important. The program is designed for the desktop but needs to make the interface lightweight as a touch. On the up side, the software tools are different and as flexible as your imagination. The program is well coded and very solid—support is in development for the next release.

The new Expressions of document management is to the web database a concept, jump between files like the desktop change or are able to experience in the new Windows 95.

In the future the editors and developers themselves begin to build and change new ways of editing, building and organizing data on possible—adding file data into the system.

Notes: Windows 95 will load the desktop and manage the browser, loading data into multiple pages. An interesting offering from an Internet Web company.

Contact

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MANAGING YOUR PAPER GLUT

Keeping track of your images

Continued from page 39

3, 2, 1... Contact!

iView Pro 2.0

From: Multimedia Creators Corp. Price: \$294.95

i2-Viewer 1.0

From: i2i Technology

Price: \$229.95 (depending on package)

Paint Shop Pro 4.12

From: Alderco Price: US\$95

Media Center 3.02

From: Jan by Free US\$6

One method—long used by professional photographers—of organizing photos is the client sheet. A contact sheet is a place of photos printed onto which the negative strips of a roll of film have been passed at their actual size

rather than being blown up. Browse the photos as you individually inspect the number of each shot on the edge of the negative appears on the contact sheet, making it easy to compare which prints need to be reprinted.

This method of visually indexing images when referred to as thumbnails is by far the most popular in computer software, and

many times doing these tasks can be done at just a price. Most of these sites (and all the ones listed here) are, of course, so there are plenty of opportunities to find out which package works best for you, and to test out new packages online.

i2-Viewer is handy for viewing single images and i2-Viewer Pro and Print Shop Pro are image-management programs that happen to include Labelling Resources. Media Center is the only one of the four that is designed specifically for image and multimedia cataloging.

i2-Viewer represents the collection of what's available before a directory on your disk, the provider for browsing pictures, and click-on-a-button to open the thumbnails. Then it backs and matches the thumbnail versions of your images appear onscreen. If you're curious about a particular image, just double-click on the thumbnail to bring up the full-sized image.

Unlike the other packages reviewed here, i2-Viewer does not allow you to save the image catalog in a separate file, every time you want to see the thumbnails for a particular directory the whole procedure needs to be repeated. i2-Viewer can also deal with the latest varieties of graphic formats of the Internet while it can deal with most of the popular formats such as GIF, TIFF, and JPEG. It includes an progressive JPEG.

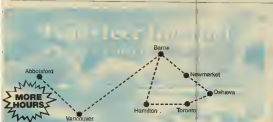
While i2-Viewer might be fast for the casual image browser, most users will probably want the extra features found in the other packages. All of the software programs reviewed here have certain common features. They all allow some sort of annotation of the images (except for Print Shop Pro) including the thumbnail size and writing of the images by name, the date, date, or some kind of image description. They are also all very easy to use. Otherwise, the different features available may point to programs which allow you a comfortable choice.

What features are what is comes to be key features.

• A wide variety of image formats: While the images are well served for use as graphics that aren't in the TIFF, JPEG, GIF or BMP formats, people who are serious about graphics work or communication with people who use other platforms need to be able to access as many formats as possible. Print Shop Pro is the winner with 37 formats, including the recently unsupported image GIF format. In other products, Media Center, i2i and i2-Viewer formats including BMP, but as RTI a multimedia cataloging package it also has several video and audio formats. i2-Viewer Pro supports 11 different file types. Also important for the Webmaster is that either i2-Viewer Pro or Media Center and programs like i2-Viewer.

• Renewable media concepts: Not everyone stores graphics on the hard disk, many people keep a collection of floppy, Zip disks, or even compact discs. i2-Viewer Pro and Media Center have the capability to store in separate files allowing you to store them without having to go through the tedious of locating and recording data also deal. Print Shop Pro

Continued on page 57



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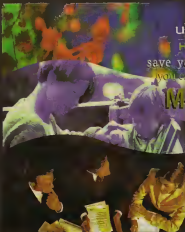
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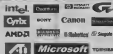
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MANAGING YOUR PAPER GLUT

Keeping track of your images

Continued from page 12

pen into halfway. It treats a reference file as the same directory it handles digitally by reducing the time required for future browsing. As mentioned before, EZ Viewer has to rebuild its database every time.

- **Automatic functions.** Nothing is more tedious than having to select dozens of directories and/or images manually. All of these programs let you select all the files in a directory (or of a specific type) with one or two mouse clicks. Joe Merla (EZ) is the only one that will also search down through subdirectories.

- **File-type search.** When you work with images from other people and other computers you quickly become aware that they speak a different language than PC users. Whereas most graphics programs try to automatically go along with the application's extension (.TIF, .GIF, .JPG etc.), this is not necessarily true on Mac or Amiga.

Some file maps have different extensions (such as .TIF or .JPG), or they might not have any extension at all. While people in the Mac world are used to files being identified by their actual content, bear in mind that most Windows programs can only identify an image's extension based on the extension itself. All the programs here (with the exception of EZ-Viewer) can deal with

this intelligently as long as you instruct it to click on "All Files" when given the option of searching for particular file types.

- **Picture manipulations.** There are times you want to find an image to do some sort of work on it—correcting it to a different format, fixing the colors, or adding a third row to a five-line document. For example, as I've seen and then they try to really mess-thing programs, they both let you access and work directly on the original image. Media Center was configured to use an internal image-editing program. EZ-Viewer has no editing capabilities.
- **Image information.** All of these programs (except, with the exception of EZ-Viewer) will give you some information on the file's properties. View Pro gives you the file size, type, and dimensions, while Media Center and Paint Shop Pro go as far as to include the color depth, the amount of colors used, the file size type, and the amount of memory the image takes up.

A family affair

PhotoDraw

From L&L Imaging. Estimated street price: \$24.95

PhotoDrawPhotoDraw

From Hewlett-Packard. Price: \$149.95

Photo album software programs are both the most and the least fun to use of any software. While they offer many of the same

features, the emphasis is much different.

As hardware and software manufacturers vie for the home computer market, there has been an increased emphasis on making things easy to use, and more familiar to appearance. In this case, that means doing away with the hard-to-use, obviously computer-like interface and emulating both the form and the function of the traditional family photo album.

In a way, this family tradition means these programs are both new and less advanced than their contact sheet counterparts. For instance, the image-editing function in PhotoDraw PhotoDraw is very basic, but since the program is designed to be used by people with little or no technical aptitude, the interface is much more sophisticated and elegant.

Add from photo albums, PhotoDraw PhotoDraw lets you take more images and place them in slideshows, albums, or rolls so you can enjoy your own legends. After selecting a format and a directory for your images, the program can be dragged and dropped into place, then printed with borders, crop boxes, ornaments, and background patterns all of which are removable objects that can be moved, resized and deleted easily.

There are also several drawing and text tools in place to let you more fully customize your pictures. In this regard, perhaps it would be more appropriate to call PhotoDraw PhotoDraw a general-purpose drawing package than a photo album package, but even a

moment to create interesting objects with your photos, rather than adding them.

By contrast, EZ-Viewer's PhotoDraw is definitely intended for making pictures. While you are allowed some flexibility in choosing the most of a photo's colors, a color board, or a film strip, the most flexibility you have in off-line presentation is how many images you can fit on a page.

Although the focus of these programs is different, here is a rundown based on the same features mentioned earlier.

- **A wide variety of image formats being added.** At the home end, both of these programs not only deal with image files, but also accept Windows devices such as standard PhotoDraw, and digital cameras already. However, both programs handle TIFF, JPEG, BMP, and PCX files, as well as every format such as GIFs. PhotoDraw PhotoDraw doesn't read TIFs, by the way. PhotoDraw can also search for pictures on the Internet.
- **Removable-media support.** In order to open a PhotoDraw album, the disc from which the images were loaded must be in the drive. PhotoDraw PhotoDraw, on the other hand, stores a copy of the graphic within the album, which contains those disk space.

- **Automatic thumbnails.** At PhotoDraw PhotoDraw is tailored more for creating custom designs, there is no provision for setting multiple files. PhotoDraw allows

Continued on page 64

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Mouse / Keyboard

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Mouse / Keyboard

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MANAGING YOUR PAPER GLUT

Learning objectives

Continued from p. 1000 423

hand-on time with it we'd like in the Western Parked Scenic Road. However, several of the birds such as a diamond position in the market, and its products are generally well regarded, it is likely that you'll be seeing a good deal of them near your store.

The #101 Mac MPX sports 16 model

includes a battery on the back of the scanner that when moved, triggers an automatic 300-very handy feature of the Sealed AirWare included with previous generations of X7 scanners, the 4000 includes a battery in use, but less powerful, drive called PowerSense, according to X7 the older Sealed AirWare is now supported on the 4000.

As a fan with the 42 and 4C series units, HP has included the PaperPort software line. Features with the 4C DC. This software is very, very good in its automatic image manager. It simply drags a page of scanned text in your word processor's text on PaperPort's "Desktop." PaperPort automatically handles the conversion of the text into text via OCR—most Microsoft, other common, and

may be flat, pitted or with pitting and other surface irregularities.

HP's software includes a feature called AutoPage, which increases the accuracy of OCR tasks by re-evaluating and adjusting contrast and brightness values on a line-by-line basis as the image is scanned. However, AutoPage does not increase contrast on a page-by-page basis, so the entire page must be rescaned to increase contrast.

It is worth mentioning that Hewlett-Packard scanners are one of the only brands of scanners that have built-in support in the forthcoming "Universal" version of the Windows Imaging System, officially known as Windows 98. The forthcoming OS will reportedly support the post-busson nature of the 4160 and 52 making scanning a nearly effortless process under that OS. This level of support only underscores HP's dominant position in the marketplace, but obviously ensures that the graphics- or OCR software package you buy will support HP's products.

In conclusion, HP scanners enjoy wide distribution and good application and OS-level compatibility. The PaperDirect software (also available separately for other scanners) will value to the system.

Seitungs.de.com ©2002

English

Price: \$50 (US) Letter: 100000

The Inspiron 4000 addresses virtually all of our complaints with 22 performance, the original Inspiron, previously reviewed in the Computer Buyer's Guide and now posted online at <http://www.cnet.com/inspire/inspire.html>.

As it did with the original Scrymgeour, Agla has chosen to make the bones of the distal area of the new model almost entirely black. This makes the unit less prone to reflections and other light distortions. Addressing several of our complaints with the previous model, Agla has beefed up the drive software for the 600 considerably. No longer is Pentium the scanner's weak link.

Compared to its predecessor, the Seaplane 400 delivers true superior image quality and a better software bundle, including the standard PaperPort software, a new package called Photo Express from Ulead, and the "Artisan" version for \$199 alone, an additional bundle of Kari's Photo Shop, Bryce 2 SE, Cameraret and Kari's Power Tools. Not being for the birds, it's hard to beat.

Everything SmartPage Pro

From: Steven Schwartz

Price: \$19.95

labeled "best barcode order scanner" by our readers. Comdex Canada reports this unit costs \$24,200, prices point to a 13-inch monitor. The unit, which attaches easily to any PC's parallel port, easily tested the image quality of competing units from Hewlett-Packard, Microtek and Visioneer (see comparison of the latter's latest barcode model, and more low-cost, at left).

Although most demonstrators are fond of donning color wigs with—what the *Naked* photographers, we found that scanning signs on white backgrounds (such as you might find on the average business card) lost some of the brightness of many low-cost, recycled wigs. Most such as the PaperFest Wig, display uneven patches in the black white area, but the Moni HairFest (American) has produced success.

Continued on page 38

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The cited twenty-page and thirteen-page responses and letter to a broadcast of total disinformation.

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Fujitsu PrintPartner laser printers are packed with extra value—inside and out. We're so confident of these printers, we give you one of the best warranties in the business, with a long 18-month limited warranty and FREE first year Warranty Plus on-site replacement program. Also included is Fujitsu MarkVision™ by Lexmark administration software, that enables remote monitoring and control of networked or stand-alone printers. On the outside, you'll appreciate features like our easy-to-use front panel LCD display. You'll even find a bonus on the box! For more information, call Fujitsu Canada today.



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Value Package



PrintPartner 10V/14V

- 10V: 10 ppm / 14V: 14 ppm
- 1 MB RAM
- 600 dpi, 1200 dpi dual (600 x 2400)
- 18 month warranty parts & labour



For an extra \$50.00, get a multi-function feeder (100 sheets or 30 envelopes) 50% \$170.00. See printer carton for redemption coupon.*

Performance Package



PrintPartner 14ADV

- 24 ppm
- 1.1 MB RAM
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- Multi-function feeder, 100 sheets or 30 envelopes
- Postscript Level 2 compatible with networking
- 500 sheet letter size tray
- 18 month warranty parts & labour
- Optional Display Unit



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TCP TEST LAB

Network printers

Continued from page 80

best performance at a very competitive price. It marks the latest presence in this status category, we feel HP's D100 operating at 16 MHz. Network printers are not known for speed. My cheap output at about 1,000 x 1,200 dpi, and the S1450 is no exception. This unit is rated at 34 ppm, and comes standard with a 60- or

80-MHz which is capable of a whopping 132 ppm using standard 72-pin 300-MHz monitors.

Standard accessories out of the box include both parallel and serial with options available for Ethernet, Token Ring and AppleLink. There is a 250-sheet standard input tray, plus an additional multi-purpose feeder capable of holding an additional 100 sheets for a total of 350 sheets. The menu system on the printer's

control panel is easy to use and offers a vast number of setup options. Toner cartridges for the S1450 are rated at 7,500 sheets, while the printer has a very impressive monthly duty cycle of 40,000 pages.

The printer has an estimated street price of \$1,935, which includes a one-year on-site warranty. With this coverage you don't call the warranty hotline. If the printer

cannot be resolved over the phone with the technical specialist, you have the choice of



moving a replacement unit the following business day, or having the unit repaired and returned to you in seven days. If your office needs a no-nonsense printer that is both capable and a trouble-free, the DesignJet 5400 is an excellent choice.

Options
OPTIONAL: \$60



Manufacturer's latest version is the DESIGNJet 5400, with a maximum speed of 16 ppm and 600x600 dpi printing. This printer offers a great balance of features at a very attractive price.

Standard options out of the box include 2 MB of RAM, a parallel interface and a total paper capacity of 400 sheets. The 2000 can be expanded to a total of 400 with 72-pin 300-MHz standard interface, and optional standard are available for Ethernet, Token Ring and AppleLink networks. An Ethernet interface card has a suggested retail price of \$499, while the Token Ring type will run you \$523. Other accessories include an optional 500-sheet paper tray for a suggested list price of \$145, a multi-purpose feeder (rated at 100), and a PostScript upgrade for \$499.

Toner cartridges can print 3,000 pages, while the drum has a life expectancy of 30,000 pages. The DESIGNJet 5400 has a monthly duty cycle rating of 30,000 pages, making it well suited for small to medium-sized offices. It has an estimated street price of \$1,399 and comes with a one-year warranty for parts and labor, the first 90 days being on-site.

QMS
2300 \$60

Known for its high performance printers, QMS submitted its 2300 PCL to this month's Test Lab.

This printer features an Intel i386 processor operating at 16 MHz and offers

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- On-board PCI IDE Controller with high speed serial & parallel ports
- 2 MB PCI SVGA Video Card w/HPEG
- 14" 1024 x 768 N/T/L/R 0.28 Color Monitor
- 15" Tower Case
- 104 Keyboard
- Mouse & Mouse-pad

Multimedia

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- 16-bit Sound Card
- Stereo Speakers

Fox / Medium

- 233.6 Fax / Data / Voice Modem

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24000	24000	24000	24750

\$1200	\$1260	\$1380	\$1790
\$38/month*	\$41/month*	\$45/month*	\$56/month*

*2002 based on 28 months lease. First and last payments to adjust with price as per price at FPL at end of lease period.

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- On-board PCI IDE Controller with high speed serials and parallel ports
- 2 MB PQ SVGA Video Card
- Acer 486 1034 x 766 Mhz L71 0.26 Color Monitor
- 1.7" Tower Case
- 104 Keyboard
- Mouse & Mouse-pad
- 100 CD-ROM Drive
- 16 (x1) Sound Card
- Stereo Speakers
- 30.6 Fw Cable/Video Modem

Model	RAM	Hard Drive	and Storage
81470	\$1420	\$1820	
547/month*	\$32/month*	\$58/month*	
min 120	AMD R5-260	AMD R5-222	
\$1400	\$1000	\$1700	
6.4K/second	88.8/second	856/second	

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 PCI slot: 1GB 512MB DDR2 (Burst) Fast-EEP
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 CPU: AMD K8
 GPU: Intel P1507 + 256MB
 GPU: Intel P1507 + 256MB
 GPU: Intel P1507 + 256MB
 RAM: 1GB 512MB DDR2
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TCP TEST LAB

Network printers

Continued from page 82



Xerox

DocuPrint 4512



speeds at 22 ppm at 600x600 dpi. Standard RAM capacity is 8 MB and can be expanded to a total of 32 MB. The 2600 has two built-in parallel and Ethernet interfaces in standard laser making network connectivity a breeze.

There is a total storage capacity of 400 sheets through the use of a 250-sheet standard tray and a 150-sheet multi-purpose tray. A duplicating option is also available for double-sided printing, as well as an additional 500-sheet paper tray.

On the consumable side of things, the laser cartridge is rated for an impressive 19,000 sheets and the monthly duty cycle on the side is equally impressive at 80,000 pages. The 2600 WS has a suggested retail price of \$2,799 and comes with a one-year on-site warranty.

The new Xerox 4512 offers an excellent mix of performance and competitive pricing.

The 12 ppm printer is powered by an AMD 2610 processor running at 25 MHz, and is equipped with a standard 4 MB of RAM. Using standard 72-pin SIMMs, the RAM can be increased to a total of 32 MB. A glassed frontdoor is standard, with optional support for Ethernet, Token Ring and AppleLink networking.

The 4512 comes supplied with two paper trays, each capable of holding 250 sheets. This is great for loading two different media types at one time, and also fast, one-on-one speed printing the paper tray. An optional high capacity tray which can hold a whopping 1,000 sheets, is available. Another impressive feature on this machine is a built-

in duplicating unit. To top it all off, it has a very sleek look and a remarkably small footprint taking up considerably less desktop space than other machines in its class.

Token cartridges are sold at a very competitive

rate. 15,000 pages, the drum is good for 30,000 pages, and the monthly duty cycle is up to 25,000 pages. The suggested retail price on the 4512 is \$2,500 with a one-year warranty.



Editors' choices

Performance:

Lexmark Optra 2600

The performance award this month goes to the Lexmark Optra 2600. This machine is superb on paper how you look at it. Everything from its 600x600 processor to its 12,000 x 200 dpi resolution to its 32 MB RAM capacity makes this machine well-suited for any medium-sized office.

Price/performance:

Fujitsu PrintPartner 1442W

This award goes to the Fujitsu PrintPartner 1442W. It offers a unique combination of 600x600 dpi (with a 1200 dpi class), comes standard with 16 MB of RAM, and has a print speed of 14 ppm. All this for only an estimated street price of \$1,999 as well as an 18-month warranty makes this printer an attractive option for any office.

Design:

Xerox DocuPrint 4512

The award for best overall printer this month goes to the Xerox DocuPrint 4512. It has an excellent balance of features, such as its standard paper capacity of 500 sheets and a built-in duplicating option, but its innovation to keep things sleek and compact design. ☐



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1.44MB Floppy Drive
31 Mega 3D 3M MPEG Video Card
15" NISL SVGA Monitor
Wrist Keyboard
15" 120x150 Case w/35W
Logite Mouse & pad
\$1045/1045/429

Pentium Pro Power System

Intel Pentium Pro 386/200
Intel TX MB
P40-4000 & 170x185MM Stand
32MB D30 RAM (exp to 256MB)
7.0GB Hard Drive
1.44MB Floppy Drive
31 Mega 3D 3M MPEG Video Card
27" NISL SVGA Monitor
Wrist Keyboard
15" 120x150 Case w/35W
Logite Mouse & pad
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HARDWARE

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COLLABORATIVE COMPUTING

Thin clients ready enough for business?

BY JIM OMURA

If you are an IT professional and have been watching the development of PCs, NetPCs and all the other parts that make up "thin client" technology, it may be time to take a deep breath and pick up some headsets again. This area is seeing interesting and often fast moving developments.

How it all began

The "thin client movement" is the result of evolutionary thinking that began with IBM's and Apple's. IBM's C22 project began to expand the power of the client-server model and NetPCs developed the idea in spirit that gave the browser an infinitely expandable horizon.

Then, for several years, it is a spin-off independent language for serial jobs. It was Oracle's Larry Ellison who looked upon a job as the first step in the puzzle toward a solution to the existing costs of PC hardware and software, and the overall cost of information system maintenance in the corporate world. The pure PC model is a closed computer involving both applications and data from a server. The hardware can be from many sources and most technologies become the property that we not locally as software as standard Java and Microsoft in a standard Java browser environment. The expansion of savings was clearly compelling.

From the perspective of the "PC standardization" the reason to develop NetPCs can be seen as simple protection of just from the incident of NetPC, but from the end user perspective the NetPC has not justified the convention. In Java-as-NetPC applications may not be workable because of the reliance on, or preference for, currently popular PC applications. Convention to pure PC might also result as much as network traffic but that, system latency would be too high to achieve acceptable performance.

No war between NetPCs and NetPCs

Confronting the more prudent professionals, it is not the PCs and NetPCs will not replace PCs, nor are they mutually incompatible. You can have contractors within your organization. In these companies you will probably always have a bit of everything. For now, the arguments may have faded for the time being.

While there are still cases of confusion and ongoing big developments over the same months, few standards were established and there are already some perfectly viable plans that can be effectively deployed. There is no reason not to begin adding NetPCs and NetPCs to your system right now.

Why?

The two big driving forces for any change in a commercial activity are savings and the use of more resources, companies are seen as always being aware of expense and

the "thin client" movement is usually just for those times. Other than required on-site for the NetPCs, the development of information systems departments, the biggest change the software may make is a cost increase in productivity due to the reduction of expensive most from base-level and fast.

Cost of ownership: real savings?
In June, the Gartner Group released a study showing that NetPCs can be 12.5% to 17% compared to 12.5% to 22% for PCs using Windows 95. In standard tasks, NetPCs are the general rule. In 1996, Gartner's M. G. Gartner, cited on an estimated \$12.5 billion per year savings for users of NetPCs over PCs.

In July, Microsoft claimed that NetPCs are in "Zero Administration" format, the "total cost of ownership" in pure NetPCs. In 1996, Microsoft's Net Server 3.0 and Net Windows 3.5 would be available for PCs by 2000, with 1997 levels, technologies used by Microsoft were network-based automatic system updates, designed for network-based technology, customer management available and the ability to use a server from multiple to multiple. All these technologies are NetPCs, NetWindows, and some are supported by NetPC technology.

IBM demonstrated key fundamentals of secure administration using its LAN Client Control Manager with a production NetPC in July.

Security costs

An area of cost saving that is probably under-estimated in the security advantages of this. This, according to a study reported by Intel's IT Group in December 1996, substantial net is being incurred due to network security problems. In survey of senior IT professionals across Canada and the United States, covering security related financial issues in the last five years, found among other things:

- 61 percent of all companies reported losses due to viruses;
- 32 percent reported losses due to mail room acts by insiders;
- 35 percent reported losses due to malicious attacks by outsiders;
- and nine percent reported losses due to industrial espionage.

The report also notes, "Nearly 70 percent of respondents noted for security not estimate the amount of their financial loss. Of those reporting losses, 24 percent lost between \$250,000 and \$1 million and two percent lost \$1 million or more. Two-thirds felt their systems were not adequately protected from internal and external attacks. From IT being used have results of a similar survey—looking at the whole world—coming by the end of September.

The more personal of supply chain driven alone can prevent problems. Introduction of secure security environments like the use of "secure" systems on NetPCs, should also be a helpful device.

DISCOVERY MULTIMEDIA

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COLLABORATIVE COMPUTING

Raising the morale of the virtual corporation...

BY GEOFF WHEELWRIGHT

How do you measure the morale of the virtual corporation? That's the challenge facing a growing number of organizations that are partially virtual by people who work either from home or from small satellite offices that study the needs of a corporate headquarters building.

Telephone, computer, fax, modems, electronic mail, Internet access and video Internet cameras (WebTV) can go a long way toward replacing the traditional day-to-day contact that office employees enjoy with one another. They can also make sure all employees can, at least, have access to the live information that will help them do their jobs more effectively.

But there is an intangible element, a human factor missing in all of this. Even if you add other high-tech gadgets such as videoconferencing into the mix, the culture and level of control between employees and between employees and employer is still the same.

To construct that, employees are increasingly looking at other ways to say and do the "human good" that ensures better employee behavior, greater employee satisfaction and a more consistent level of service to customers.

A number of new ideas appear to be part of this. They include team building, social media where data is progressively pooled, employee needs and other attempts to make sure the remote employee has just as much of the company as a whole as if he or she is part of the "loop" that they want a lot of time wondering what is really going on inside their organization.

One large corporation that has spent considerable time and money on this issue is Intel Corporation, and particularly its operations in Canada, where an effort known as "Sixt place" has been under way for the past five years.

"The workplace of tomorrow will be profoundly different than the one we work in today with greater numbers of employees working outside the traditional office hours—both their customer location or a number of other alternatives," says the company in a published statement explaining the strategy. "This initiative supports the company's commitment to increase employee involvement, employee productivity and robust operating costs."

In part of the Sixt place plan, all sales and service representatives and managers can use laptop computer technology to enable them to manage their business from their homes, and only use the office as required. The com-

pany says that this enables an environment where the nature of a given job is made more individual at each place working from home will handle a diversity.

It can also make a much more interesting daily life for the kinds of relationships that sales and service employees have in their jobs and if they are spending most of their time either working from home or visiting customers, the hope is that they will have a much more "customer-centric" view of the world—and that will be able to much more effectively communicate the needs of their customers to their employees.

Likewise, Texas Instruments with the Intel Foundation in a U.S. study designed to test the idea that "flexible benefits" policies can also help improve business results. According to Patricia M. Neumann, Texas Instruments' human resources policy and practice director, the results were encouraging.

To see what would happen when employees had the flexibility to start their day obligations in the job and at their own pace, modest with their laptop business units, employees using only those flexible work schedules and usually agreed upon "quiet times" where all interruptions were banned to give workers greater say in how they work.

The company says results were striking, as the flexible schedule option, doing the company

sign sales increases, increased sales and customer satisfaction, improved sales service and support people learned what they called "cross-functional" teams to address work/life balance and improve customer service.

"Without a sense of control over their own lives, they feel stressed and are less efficient, productive and motivated on the job," Neumann said. "Companies that treat employees work impact in key elements of the issue, are more likely to increase employee motivation, productivity and commitment to quality."

In addition, the company has had to create some new employee benefits to meet this goal. Out of these, benefits at Intel's Austin, Texas, site introduced in 1993. The company says Intel's Austin location provides substantial evidence to show how covered by the company's traditional benefits plan. Austin employees who meet eligibility requirements can receive up to \$2,000 a year as a lifetime maximum of \$100,000. This is to be used in some circumstances at child care, employee assistance and money toward the purchase of health insurance for household members not previously covered by the Austin medical plan such as domestic partners of the Austin site, spouse's wife, sibling's spouse, child or grandchild living in home. □



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TRENDS

Who are those computer TV stars?

TCP's celebrity beat reporter gets the inside scoop on Dotto and Chalk

BY BOB LAMIRAND

Some Dotto and Dorot Chalk are two very different guys with a lot in common. You only have to wonder with Dorot Chalk as the quality, legitimate computer expert who lives in a coffee shop on Dorot's Chalk Off. The Knowledge Network-produced show is beginning its fourth season and going professional. You may not be familiar with the name and why Dorot Chalk was in beginning its show last year on television and now he's been moving through guide network operations on Dorot's Computer Show.

Dotto may not be likely to be seen more of Dorot's two separate yet related, get down to it, they are to bring computer better, better, and education to give the network. Here is where they come from, who they are, and what they do up to.

Dotto on Dorot
Dorot Chalk is a 38-year-old father of two who was born in Dorot, Colombia. After a year in an agency with the Canadian Computer Group, Dorot Chalk for several years, and began work in the computer business.

His high-level approach to Dorot and professional quality made him a popular speaker. In one word, a spokesman for the Knowledge Network. It is a national TV network that has a show about computers, the high school students.

Dorot's national television network has a second series called Dorot on Dorot, which is popular into the mid-1980s, but also,

Chalk also worked for four years ago. Dorot had an idea for a more professional computer show. He and co-producer Jeff Goldstein, founded operations, such as Apple, IBM, and other, and managed to get Dorot's Chalk Off on the air.

The show has taken off and is now airing on fourth series. Dorot's Chalk, and is now airing on fourth series. Dorot's Chalk, and is now airing on fourth series. Dorot's Chalk, and is now airing on fourth series.

At the same time, Dorot's Chalk, and is now airing on fourth series. Dorot's Chalk, and is now airing on fourth series. Dorot's Chalk, and is now airing on fourth series.

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—Dorot Chalk



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immense exposure. I speak about dance studios, Canadiana, a theatre."

Regarding the success of the television show, he is quick to give credit to the network and his luck in everything from the writing and production values to the look of the show. "Obviously we appreciate you, because the people that watch and read... are a huge segment of read-are very supportive. But we have an comfort zone in itself. It's not just as by any stretch of the imagination. These guys have been very involved in the success of the show."

He wins, "The thing that attracts me, is a weekly life line followed the path and put another focus show on. If you look at how many how to cooking shows, and how to home improvement shows, and how to every thing, that people are interested in. There are lots of good how-to shows, but as computers, where we need more time to support than anything, there are no other shows on the air. That's one of the reasons we differentiated ourselves right from the beginning. We added a little celebrity humor that we used to create a look and feel to the show as producers like when that comedian audience built."

It's a good thing there is a plan for the day when computer comes along because that competition is here now.

Enter Chad Clark

David Clark, is a 37 year old, entrepreneur who was born in England and moved to British Columbia. He is the founder of the large computer superstore chain, Digiplus.

After a very successful start in retailing computer equipment, Clark found himself being working for the company for 10 years. Suddenly with out a career, Clark asked him what he could do with his 14 years of computer experience and a stack of ambition. The answer came in television.

Clark's radio show, along Sunday morning, is the number one rated nationally syndicated radio show broadcast across the country and now expanding.

Clark was born in 1960. The Dave Clark Computer Show, which airs on the radio, was radio and video to create a highly successful business. However, the real excitement is the television show.

Dave Clark's Computer Show is his second year and also being off. Headlined by America's Entertainment King, out of Vancouver, the show is seen in Vancouver, Seattle, San Francisco, Mexico, Washington, and Calgary. However, most agreements with CTVN and the New TV station will bring the show to over 20 cities in the U.S. as well as Toronto, Seattle, Chicago, Denver and Phoenix, among others. According to the show's producers, it now has, like the Green show, an audience of more than 1 million.

The reality-style show seeks to offer a segment, best-of program that is as much entertainment as education. The episodes have a quick pace, casual style and do not get bogged down in details—clearly the Canadian audience is the person who has very little exposure to technology.

Clark claims there are a huge number of people out there that "are so nervous about trying something new, they don't want to get it. I get it. When I thought with this show, they just need a place where they can go, take in whatever they want and when they go to work the next day, avoid the worst-most or whatever, they at least know where the front end of technology is."

"You talk to someone about computers and one of the first things they will say is 'I'm a computer neophyte, I know nothing about computers, I am as dumb as a post when it comes to computers.' But they won't say that regarding politics, religion or anything else."

—David Clark

Clark says the biggest frustration for new computer users is "they don't know what they want to learn." Mentioning his years of working with computers, his goal is to "fill those gaps, those things that people don't know when they buy a system, what kind of software package. That little bit of background info that would help them make a better decision. That's what the show is

about. It's not there to teach just to show the latest products, it's there to teach those users of the things to know to feel comfortable. This show is for busy business and others who want some comfort a place to start, then they can follow up more in the magazines or in the more technical shows."

With its smooth technique and good looks, Clark is likely to be around for a while. ☐

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ONLINE

The law of cyberspace: The Communications Decency Act decision

BY BRADLEY J. FREEDMAN

On June 26, 1997, the U.S. Supreme Court, in its first decision involving the Internet, handed down a landmark decision on the constitutionality of the Communications Decency Act (CDA) of 1996. The decision in *Reno v. American Civil Liberties Union* is a landmark in cyberspace jurisprudence.

The CDA decision

The CDA was the American Congress's first attempt to regulate the content of Internet communications, and was directed at protecting children from harmful, sex-related Internet material. The CDA required criminal liability for the knowing transmission of "indecent" material or the knowing sending or displaying of "patently offensive" material over the Internet and commercial online service to a person under 18 years of age. A diverse group of plaintiffs including the American Civil Liberties Union, Microsoft Corporation, Apple Computer Inc., Planned Parenthood, America Online Inc. and

CompuServe, Inc. argued that key CDA provisions violated constitutional due speech and due process rights. The U.S. government defended the CDA on the basis that it was a necessary attempt to protect children from sex-related material, and did not unjustifiably encroach upon free speech rights of adults. The U.S. Supreme Court rejected the government's arguments, and declared the challenged CDA provisions unconstitutional.

The Court unanimously held that Internet communications were entitled to full free speech rights protection, and that any legislative device at regulating the content of Internet communications ought to be narrowly tailored to achieve legislative purpose with the minimum impairment of free speech rights. The Court also unanimously held that subsidizing the legitimacy and importance of protecting children from harmful material, the CDA provision criminalizing the display of "indecent" material to which was constitutionally secured.

Overturning the CDA's new age 18. The majority held that all of the challenged CDA provisions were unconstitutional, while

Continued on page 100

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how fast with just about every graphics format
going.

The early copy thing, though, is that you
don't have to take any word for it. The com-
puter won't let Jack's foot slip right now and
demonstrate a working demo of its 3D graphics.

Version 4.0—the one that takes the
Windows 95 environment into account—is
fully available at a hot 10 per cent
discount. This early study design has
improved with a very thorough test to
make, and the CD-ROM version of the soft-
ware—only has a whopping 15MB of 3D data
files are stored because the graphics is available
only via the real end. Version 3.0, which
is very similar to the real end, will supply you
with early editions, is somewhat less com-
plexed.

While you're there, check out the com-
puter's other offerings (like it, to my humble
opinion, a company worth watching. It is
always really good products for much less
than the competition and it's worth seeing
enough to let folks up to read for free.

Microsoft Image Composer

System: Windows 95 & NT 3.1 & 3.11
System requirements: 4MB or greater processor: 33
MHz or 66MHz 16 MB or greater hard disk space: 10MB or
greater (optional) hard disk: 40MB or greater

Web site: <http://www.microsoft.com>

And then on the other side of the marketing
campaign, there's Microsoft, where it's all
quite different. I can't help but feel like it's
almost the same with Image Composer. Not
because it's just great software—it is—but
because Image Composer is being sold solely in a
give away type deal when you buy something
else. For instance, if you buy something
from Microsoft, Image Composer is as part
of the bonus pack.

There's a main Image Composer
level included with something like a power-
ful-but-wasteful—tool, for preparing
images for a Web page. Once again, this is a
tool that isn't Photocopy. However, if you're
plotted to get somewhere or within a bonus
to something else, you should be able to keep
along quite nicely. Also, the program is so
completely portable to use, it's a refreshing
change from the other marketing schemes
regarding when in the early stages of using
Photocopy.

DeBabelizer Pro

System: Windows 95 & NT 3.1 & 3.11
System requirements: 4MB or greater processor: 33
MHz or 66MHz 20 MB or greater hard disk space: 10
MB or greater (optional) hard disk: 40MB or greater

DeBabelizer Toolkit

System: Windows
System requirements: 4MB or greater processor: 33
MHz or 66MHz 20 MB or greater hard disk space: 10
MB or greater (optional) hard disk: 40MB or greater

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COMPAQ 17" VGA 256K RAM	\$499
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TUCOWS SHAREWARE

Internet development tools



BY SCOTT SWEDORSKI

You are the designated office geek. You get around the network fairly well, you know a little Internet markup language (HTML), and you have an Internet

account. At home, so you have been chosen to build the company's new Web site to connect your team is expecting all the latest bells and whistles. It has to be fast, it has to be great—oh, and it has to be online and ready.

Well, if you're interested in home, using my lessons, graphics, and tables and are doubting at the idea of learning Java, there is a variety of Internet development tools available that will take some light out of the learning curve.

HTML Vocabulary



Version 1.0
Release date: April 24
Platform: Windows 95
File size: 173 KB
License: Shareware
Home page:
<http://www.tucows.com/shareware/html>

Platform: Windows

If you know Macintosh and are still learning Web design basics, HTML Vocabulary is a great source of almost every HTML tag available.

Continued on page 130

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TUCOWS SHAREWARE

Internet development tools

Contented Form Pro
including forms, tables, tables, special character maps, and more. HTML Vocabulary is a fun and easy to use tutorial for the beginner as well for the professional Webmaster.

HTML Reference Library



Version 3.1
Release date: Apr. 11 1996
Platform: Windows 95
File size: 1,437,358

Contented Form Pro is a powerful tool for creating Web pages. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library.

Activator Pro/2



Version 1.0
Release date: Apr. 11 1996
Platform: Windows 95
File size: 1,437,358
License: Shareware
Home Page: <http://www.tucows.com>

Activator Pro/2
Activator Pro/2 is a collection of pre-built Java applets that Web designers can incorporate into their Web pages. The Activator Pro/2 applets include features such as: a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library.

Bandwidth Buster



Version 1.0
Release date: Apr. 11 1996
Platform: Windows 95
File size: 1,437,358
License: Shareware
Home Page: <http://www.tucows.com>
Activator Pro/2 is a powerful tool for creating Web pages. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library.

Table Generator
Table Generator is a powerful tool for creating Web pages. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library.



Version 1.0
Release date: Apr. 11 1996
Platform: Windows 95
File size: 1,437,358
License: Shareware
Home Page: <http://www.tucows.com>

Table Generator
Table Generator is a powerful tool for creating Web pages. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library.

Banner Show



Version 1.0
Release date: Apr. 11 1996
Platform: Windows 95
File size: 1,437,358
License: Shareware
Home Page: <http://www.tucows.com>

Table Generator
Table Generator is a powerful tool for creating Web pages. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library.

CUI/Win Pro



Version 1.0
Release date: Apr. 11 1996
Platform: Windows 95
File size: 1,437,358
License: Shareware
Home Page: <http://www.tucows.com>
CUI/Win Pro is a powerful tool for creating Web pages. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library. It includes a powerful HTML editor, a powerful HTML reference library, and a powerful HTML reference library.

Continued on page 112

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TUCOWS SHAREWARE

Internet development tools

Continued from page 110

are used to be UNIX scripting to create Internet-friendly pages, sites, forms, and addresses: www.tucows.com/joomla/.

NTM: Released

www.tucows.com/joomla/

Version 1.01

Release date: Nov 14

Release date: Nov 14

File size: 1.00 KB

License: Shareware

More info: <http://www.tucows.com/joomla/>

Release date: Nov 14

NTM, however, resembles the problems encountered when porting the business DMS/Windows, NetWare, and UNIX file systems. By changing file names and lengths, and format characters and file data, in HTML, text, HTML, NTM, however, does not

your files and Web pages will work on any operating system. Using NTM, however, before you transfer files, for example, applying a file size to a UNIX server may give you a warning in your NTM window if the file is going to be too large. Check with your provider before you set up these files.

Some issues to keep in mind

Just do not expect instant permissions at every file loading time, but you will need some in your server's up-link directory if you are going to use CGI scripts. Check with your provider before you set up these files.

Just do not expect that all servers support CGI, or charge extra for the service. And while advanced features may find some of their projects after installation, NTM, however, are already familiar with, because they do not have enough of the hardware. It is a good idea to look up your file set in another directory in your home computer before experimenting with new NTM techniques. Q

U.S. squads dominate RoboCup'97

MAGDOBA, Japan (UPI)—The final results of RoboCup'97, the first ever soccer world cup for robots, have been announced. The winning robot was created by Carnegie Mellon University, University of Southern California and Information Science Institute, Osaka University, Stanford University, the University of Maryland, Royal Melbourne Institute of Technology and a combined "Golem" team from Japan.

The six-man robot league, called RoboCup, was the first of its kind. The winning robot was created by Carnegie Mellon University, University of Southern California and Information Science Institute, and Golem team from Osaka University.

The competition began, which featured software simulations of robots playing their soccer matches, was won by Carnegie Mellon

University of Southern California and the University of Maryland. In the final match, the University of Maryland won the RoboCup Soccer Challenge Award for "outstanding the ability of evolutionary approach by combining soccer league in the simulation stage."

The RoboCup Engineering Challenge Award was shared by MIT's Institute of the Royal Melbourne Institute of Technology for "innovative design of intelligent multi-agent driving mechanism" and the University of Queensland University, Royal Melbourne University and the Institute of Physics and Chemical Research (RCS) for "innovative design of robot-based multi-directional driving mechanism." —Marty Williams

RoboCup 97

Web site: <http://www.robots.org/robocup/>

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ONLINE

Weaving Your Own Web Site—Part XXV

HTML Elsewhere Pt. III: CDF

BY KEITH SCHENGLIS-ROBERTS

The last time we looked at Extensible Markup Language (XML), which is a method by which browsers can access remote objects of the Standard General Markup Language (SGML) within a Web page. One of the more interesting applications of XML is the development of the Character Definition Format (CDF), which is a means to bring Web and "push" technology to the desktop.

To explain how CDF works, you need to know how it is being integrated for use in

Microsoft's Internet Explorer. Internet Explorer 4.0 brings a couple of new changes, to help making "push coding" and "Internet" both of which enable the user to "move to" and check, depending on Web sites changes and updates. If you're not a copy of Internet Explorer 4.0, you can check out Web sites for yourself.

Here's how it works: go to a Web site Web site and from the Internet Explorer's Services. A dialog pops up that allows you to make a couple of decisions regarding the site. If you choose the default action, when you click the Home button on the first Internet Explorer will automatically check to see if the

page you have selected has changed. If not, the site will not be checked.

If it has, it will be "pushed" to the user's Web browser. The user will see a dialog box that says "Internet Explorer" and it will also push a dialog box that says "push" to the user's Web browser. To then you can view the changes of the site. This is a great way of checking out the latest information that appears on your favorite Web site and also system users with an existing Web browser. When Web site is updated, Internet Explorer will check to see if you have a better version of the site. You can then click the Home button to see the latest version of the site.

Internet Explorer 4.0 also has a new feature, you can also check to see if the page has changed. To check CDF, click on your Web site. Adding CDF to your Web site will allow you to add a CDF file to the site. The user will see a dialog box that says "push" to the user's Web browser. To then you can view the changes of the site. This is a great way of checking out the latest information that appears on your favorite Web site and also system users with an existing Web browser. When Web site is updated, Internet Explorer will check to see if you have a better version of the site. You can then click the Home button to see the latest version of the site.

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ONLINE

Watching your own Web site

Continued from page 114

Internet version, the listing METHOD, etc. By using CDF code, you can post personal addresses to each of the sections of your Web site, and keep them abreast of the latest information they are interested in.

Here's some sample CDF code to give you a taste of how it works.

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ONLINE

Next comes the «TITLE» tag, which tells in much the same way as does the «ID», equivalent though for this one it displays the text it contains to the right of the icon in the browser channel pane.

The «STRACT» tag provides a more full description of what can be found at that particular place on the Web site, and Internet Explorer displays it in a scrollable dialog to the right of the icon in the browser channel pane when the cursor is placed over the channel title.

The «ICON» tag works much like the «IMG» tag, and is used to set the image to be used to represent a channel or channel item. Two images are specified: a logo whose dimensions must be 32 pixels high by 40 pixels wide, and an icon image of the logo (which must be a 16x16 pixel image).

Finally, the «ITEM» tag is used to define the URL of a particular item (i.e. a Web page) in the channel, which must now include some of other «TITLE» and «STRACT» information to provide information on first look to the subscriber.

The law of cyberspace

Continued from page 102

and a proposed act to restrict the use of the Internet to distribute pornography material involving children. The proposed legislation would require that all Internet service providers be licensed and that they retain the criminal records of their subscribers. The act did not proceed past first reading.

Also Quebec's Office of the French Language has taken the position that all commercial advertising Web sites originating from


that's about all there is to it—at you can see, it is very easy to tell a Web site into a channel. It is an open house, and every third party software companies who have Microsoft are buying into the scheme, and there are already a number of popular Web sites that have been converted into the channel format. If you are looking for more information on CDF, the better source on the topic can be found at <http://www.internet.com/Info/>. When there look for links to the "Web Citing Whitepaper" which explains the process of channels and explaining in detail and the "CDF Specification" which includes description for all CDF tags. □

Mark Schwab's column contains any comments, suggestions or HTML tips and tricks you may have. You may email Mark at bschwab@compuserve.com, his URL is <http://www.theinternet.com/Compuserve/0688-9174055040-4> is available in French. Please indicate in the area can be found at The Computer Page Web site at <http://www.cpc.ca/>.

Quebec business and directed to put to Quebec consumers that comply with the French language requirements of Quebec. One of the French language at last our Web site www.theinternet.com has started to intensify to challenge the policy. □

Bradley L. Swanson is a third lawyer with the Vancouver law firm Laidlaw, Gault, & Co. who has a number of patents, including intellectual property law and trademark. He can be reached by email at brad@laidlaw.com.

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BOOKS

Java title not entirely for beginners

BY KEITH SCHENCILO-ROBERTS

Beginning Java
Author: Jon Horton
Publisher: WILEY
ISBN: 0-471-06027-0
September 1996 pages: 1767
Price: \$55

If is the just you've have seen a plethora of books on the Java programming language. Books good, bad and indifferent have flooded the market as people interested in the web and professional programmers work good learning material that will extend them in the fundamentals of the language. Beginning Java: How to Use Java is another good book (it just over 1,000 pages) on a subject that has been covered by innumerable other books on the same topic.

This book is one of the first out of the gate to cover the new Java Development Kit version 1.1, and manages to do a good job. There's plenty of information here—perhaps more than is absolutely necessary—but it makes a good primer for the beginning Java programmer.

WILEY Press specializes in books on programming, both for the beginning and for more advanced programmers. Author Jon Horton seems to specialize in writing good programming books for beginners. He has written several other books on such topics as Windows programming using Turbo C++.



Visual C++ 4 and 5, and non-plain of Java C++.

Though C++ seems to be in its infancy, he does well with this book on Java, beginning with the very basics of Java programming, such as using arrays and strings, and slowly working his way up to more complicated topics, such as threads, networking, and JDBC.

Horton does this always makes better, in fact, the reason for the book's early success. It's a book to be in the line of the time, he present a large title to the world. He hopes on the bookshelf. So you can expect a certain amount of fat in every line. Many of the larger books you see on the computer bookshelf as if your local bookstore. This book has a better bit of that. While it's

well-written and it clearly describes concepts and facts, there are times where Horton goes overboard in his coverage of general concepts—this perhaps accounts for some of the weight of the book. Additionally, there is a lot of repetition, but as times there seem to be more examples than is absolutely necessary. It is a lot of time for someone who has already had some exposure to Java. At other times the book also gives the ideas away—if you're a beginner, you may have to be in the line of the time, he present a large title to the world. He hopes on the bookshelf. So you can expect a certain amount of fat in every line. Many of the larger books you see on the computer bookshelf as if your local bookstore. This book has a better bit of that. While it's

This book is certainly more complete than many others that deal with Java, and if you are seriously interested in learning Java, and are willing to work hard at really learning it, then this is a good book to consider. The book is an easy read, and the "Beginning Java" programmer who simply wants to add Java programs to their Web page—this is better off looking for something else that is not too intimidating. ☐

Rating

Information content: **

Readability: ***

Interest for Beginner: ****

Overall Rating: ****

Contact

New Press, Web site: <http://www.wiley.com>

All you wanted to know about CSS

BY KEITH SCHENCILO-ROBERTS

Cascading Style Sheets: Designing for the Web
Author: Eliot L. Lish and Jon Bert
Publisher: Addison Wesley
ISBN: 0-201-42080-0
September 1997 pages: 357
Price: \$31

If you are designing pages for the Web, you've probably heard about Cascading Style Sheets (CSS), and have thought about implementing them on your site. Or maybe you are a more advanced Webmaster who has already implemented some CSS elements on your site, but don't feel quite giving the most use of them. If you want to learn more about CSS, then it's time to go on with Cascading Style Sheets. Designing for the Web, written by the creators of the standard.

Authors Eliot Lish and Jon Bert are co-authors of the original CSS specifications and standards. Additionally, the content of the standard is presented in a way that is easy to understand. The book is designed with CSS, but does not discuss the documentation as the Cascading Style Sheets is designed primarily for the benefit of the people who build Web content and Web sites. This book is targeted at Web authors who want to learn about and implement CSS elements in their Web site.

CSS lets you do a number of things you cannot accomplish with regular HTML,



including the ability to specify the point at which an element is to be displayed when a Web page is loaded. Additionally, it allows the user to specify the point at which an element is to be displayed when a Web page is loaded. Additionally, it allows the user to specify the point at which an element is to be displayed when a Web page is loaded.

The book takes an extensive look at CSS, providing an extensive background on its history and structure, and how elements are organized and how elements are organized. The book is exceptionally well laid out, and includes almost all of the most useful examples and code samples.

However, the book suffers from the fact that it doesn't take the time to explain the CSS. The book is targeted at Web authors who want to learn about and implement CSS elements in their Web site.

new Internet Explorer and Navigator 4 present only support some subset of the CSS specifications. As a result, you can't expect all of these examples to work in other (or both) browsers. However, both Microsoft and Netscape are members of the World Wide Web Consortium, and will likely adopt the full specification over time.

Another drawback is the fact that the book does not deal with Dynamic HTML, which when combined with CSS, there is no way to create a Web page that is dynamic. However, the book does deal with the fact that the book does not deal with Dynamic HTML, which when combined with CSS, there is no way to create a Web page that is dynamic.

Still, Cascading Style Sheets: Designing for the Web is well written and well presented, though it is plagued—like so many books dealing with such a new topic—by a lack of examples. However, it is a great foundation for learning CSS, and will likely inspire other books on the subject. It is a book to read, not just a book to read. ☐

Rating

Information content: ****

Readability: ****

Interest for Beginner: ****

Overall Rating: ****

Contact: Addison-Wesley Tel: 408-401-8000

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BOOKS

Happy news for sad Mac users

BY KEITH SCHENGILI-ROBERTS



Sad Macs, Beeps, and Other Diagnostics.
3rd Edition
Author: Neil Linden
Publisher: Prentice Hall
ISBN: 0-201-46116-7
SafariNet ISBN: 1997
Price: \$61

For some reason a strange depth has been built up in people's reluctance to use Macintosh computers—Macs don't exist. As any experienced Mac user will tell you, Macs don't do it right in reality. Changing the course of the many more Macintosh computers do exist. *Sad Macs, Beeps, and Other Diagnostics* is a great book for those people trying to avoid crashing their

Macs, or looking for what to do when the inevitable does happen.

This book is something of a classic, even in its third edition. It's a thick book, but there is very little filler here. It is designed for both the beginner and the advanced Mac user.

The actual sections of the book cover the very basics of Mac operation, and serve as a great introduction to how Macs, hardware and software interact. The middle of the book is devoted to the plethora of situations that can make your Mac freeze, go into an endless loop, or behave in other seemingly inexplicable ways. It also contains numerous tables that explain the many particularly incoherent Mac error messages that can arise, such as "bad 7 line transaction" or "an error of Type 1" and also explains the meanings of the many strange beeps that sometimes that appear when the dreaded "sad Mac" error.

This book is not merely a listing of errors, but goes into great detail about the workings of the Mac, thus containing information that will prove enlightening to both the novice and experienced Mac user.

The third and final section contains a number of "fix-it" which are extra-tips that can be used to troubleshoot the most common problems that can occur. Though this book would reward anyone who reads it straight through, the author knows that most people will only pick it up when they need it, so the third section, the book is particularly well indexed, including a separate "troubleshooting" index to the regular index. Using either index, you can learn not only how to fix a problem, but also the background information on why it likely occurred in the first place, and how it can perhaps be avoided in the future.

The book covers the basic Mac operating system up until version 7.5—anyone will have to wait for the more editions of the book to get information on the new System 8.0 (or most likely System 9.1).

A third edition is likely as this popular book is used by Apple's own technical support staff as a common reference tool. Its content goes beyond the usual and makes it a book that is a good book for any Mac user's bookshelf. **C**

Rating

Information content: ****
Readability: ****
Value for money: ****
Overall Rating: ****

Contact: Addison-Wesley, Inc. 440-447-5500
Web site: <http://www.addison-wesley.com>



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MAC ARENA

Apple to acquire Power Computing

BY PATRICE MCENINNA

CUPERTINO (CBS)—Apple Computer has quietly started following negotiations with Macintosh clone-maker Power Computing by announcing plans to acquire the latter for \$200 million to remain private. Since an Apple's installation of Mac OS X, Apple and clone-maker Power Computing, Cupertino, and Unix have struggled to separate themselves to create new licensing agreements.

The deal leaves Motorola and Dell as rivals, but solves Apple's toughest clone problem, competition from Power Computing.

Dell's Steve Ballmer, who worked with the California Technology Stock Index, tells Newsday, "Apple saw Power Computing taking traditional Macintosh customers away as opposed to creating new markets. The acquisition is probably the smart way to end the previous tension. The two companies, for Apple, this is a good deal. For \$200 million, it ends the conflict, but isn't publicly generated by the disagreement, and avoid a possible lawsuit."

"Apple board member David John says they saw this as creating a win-win," continued Brown. "He never wanted Apple to become the operating system in the first place."

Power Computing agreed to buy because they began doing what Apple did, only they did it better by delivering items and less expensive high-end systems.

Brown also thinks the acquisition will disrupt rumors about Apple as a software-only company. "The environment is critically important. Apple's stated intention of continuing to build a software and a hardware company."

Included in the key assets Apple will acquire are the rights to retain key employees with experience in direct marketing, distribution, and engineering. Power Computing's customer database and the license to distribute the Mac operating system.

"Power Computing has provided direct marketing and sales to the Macintosh market, successfully building a \$400-million business," said Apple's Steve Jobs. "We look forward to learning from their experience, and integrating their customer base into the Apple family."

Stephen Kaling, founder and president of Power Computing, retains the rights to the name Power Computing. The company acquires a secret plan for an initial public offering and a modified strategy to develop last Windows-based personal computers while continuing to produce Mac clones. He has not continued his intention to develop

Power Computing into a Windows-based system.

"Power Computing has stated it will sell Mac OS-compatible computers through Dell. Apple will provide ongoing Mac OS support via Power Computing's customer and Power Computing will continue to provide hardware and warranty service to its customers."

"Power Computing is grateful for the outstanding support and encouragement we have received from the entire Macintosh community," said Stephen Kaling. Power Computing founder and chief executive officer. "We believe that in our next step, we have helped to make the Macintosh stronger, and that the spirit of Power will live on." □



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CD REVIEWS

A natural history coffee table book

BY ROSS MACDONALD

Treasures of the American Museum of Natural History

From The Hayden Company
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Despite our obvious affection for such items like *Dancing Queen*, which promotes collecting CD-ROMs with interactive entertainment value, I am also very happy to create access to those adult-oriented items that in a counterpoint to great books and epic legends include a lot of fun, too.



But as it would be virtually impossible to list every thing the American Museum of Natural History has to offer on general release, the makers of this CD-ROM have focused on what the museum has categorized as its "treasures"—its priceless fossils, animals and objects that they do not wish to make significant.

Among them are the Neanderthal skull, one of the finest natural specimens in its kind in the world; the Glen Rose Dinosaur track that was actually discovered and traced; part of the mammoth and a multi-layered fossil of the fossil remains in which layers of tissue and structure accumulate as you change your angle of viewing.

The history of origin of such treasure is plotted on a world map as well as where each is displayed from a floor plan of the museum from either of three views, in a computerized index you can link directly to any of the entries to see photos and film, and text and even more but informative, nevertheless, all of which contribute to explain the lives or render where and how it was found, why it is important, why it is irreplaceable.

Other features that might be included are a glossary and a neighborhood index which you can move from one item to view as the producers suggest, assemble a menagerie in preparation for a visit to the museum itself.

And, just as things don't remain only in pictures, a rudimentary game called *Discover Dig* is shown in which you assume and assemble the bones of a T-Rex, and then learn to put them together. Although the American Museum of Natural History continues a well-pro-

duced, fully developed and accessible effort, this CD has several specific aspects of natural history—and would be a good (but not great) coffee table book on display. Though not heavily recommended by virtue of

either being as production value, the reasonable price and artistic concepts might be placed here, but well within the "deserve a look" category of more people and people's devices.

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CD REVIEWS

Dungeons but no dragons

Explorations of a real(istic) medieval castle

BY ROSS MACDONALD

Castle Explorer

From: Daring Redwoods
Estimated street price: \$29.95

Even those in the dual media disk (CD-ROM) format are not immune to the lure of interactive media. It can provide means of great interest in a broader range of subjects.

In this case, we are taught almost everything there is to know about the medieval castle and castle life by means of multiple interactive screens filled to brim with interesting facts as well as supporting text. That all sounds very nice. I am sure that those specifically interested in the topic of medieval castles, like, in typical CD-ROMs, there's a lot more built into this disc than will make it attractive to just about any casual person.

We can begin by exploring the Castle Explorer entirely on your own or by means of a guide, as well as touring numerous hot spots. There's a tutorial to help you learn around and plenty of interesting additional content—particularly around the castle "prize"—to add atmosphere to your exploration.

Once you feel comfortably familiar with your featured landmark, you then move on to the 100 Castle—no, that's not a typo!—but more involved but fascinating series of exploring your own found knowledge.

The premise is this: one generic castle is that of Baron Mordred, a nobleman mentioned by the King. Your assignment begins with the task of identifying the castle depicted in a simple page, a knight or a maid, then you proceed to find the answers to various questions about Mordred on a castle. Moving to your "top list" shows by the time.

After that comes the most serious difficulty: how to find a way that shows the Baron's own escape tunnel. And, just in case things don't go quite as planned, we're told how the castle that this map has been told into place and left in the case of various castle scenarios to be the focus.

As you carry out your exploration, you'll encounter no fewer than five video characters (over 100 hours of audio) and 300 interactive 3D objects, five 3D virtual worlds and 12 "building" scenarios, which allow you to focus on different areas by means of your mouse (or keypad or control panel). There's also a brief help screen to show you to give you the marginal help along the way.

Of course, the point of all this is that, by the time you're accomplished your quest, you'll be well educated in the world. But it's a medieval castle that is not a castle as which people of various nations lived.



Incidentally, more difficult than the game itself is the large and complex paper castle model they're shown as to keep you learning, building, growing and making will put your best time. I'm sure it's very nice when it's done but I'll have to wait for the game to see before I can be sure.

As good as CD-ROM is achieved with help helpings of music and a sophisticated to well present it's not always obvious. However, when they used to be light years ahead of about all the competition, the years and the future is beginning to look a little more and that's all. They have yet to incorporate many of the most amazing technological techniques employed on more recent discs.

That that absolutely every CD-ROM should break you into the head, it's not to see when the already excellent CD-ROM can be made even better with a step or two forward in technological development.

Castle Explorer: it's good. It's cheap. Grade: B+

Daring Redwoods Inc. (Canada) Inc. (Canada)
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It's keeping your software up-to-date is a problem for everyone. The Internet has increased the frequency with which new versions come out of CD-ROM. Up to a useful service, then configure the Catch-Up software with their Internet and with a single click of a button, the Catch-Up service provides a custom list of software updates including corresponding download links.

Web site: <http://www.catchup.com>

KIDS

Software for ankle biters

Reader Rabbit programs provide "early" enrichment

BY JEAN ALLEN IKESON

The Learning Co. recently released three new programs for the under-five set in the Reader Rabbit series: Reader Rabbit's Toddler, Preschool and Kindergarten. All three Reader Rabbit programs run on Windows 3.1/MS-DOS 5.0 or Macintosh computers and are well worth the steep price of \$29.99 (And if you can still find them with a minor reader's worth \$25), a price the parent pays to a new \$29.99.

Psychologists have long known that early childhood stimulation results in children

who deal better with stress and have better verbal skills. And these new Reader Rabbit programs will help stimulate and interact with children as young as 18 months.

Reader Rabbit's Toddler

Senior Shen reflects the identical love of early machines, but like all TR, it's a gentle experience on the viewer's part. Reader Rabbit's Toddler, however, provides instant early enrichment, too, as the mouse and keyboard on a simple level to interact and control what they see and hear from the user page.



Children are natural explorers and quickly adapt to the skills needed to "play" the program. They need to be able to click the mouse to move the cursor around the screen with the mouse to a general area. Very fine control is not needed. Games are simple and simple matching techniques or clicking on the keyboard (say key)

For example, in the Bubble Game, a beauty doggie blows bubbles, some of which contain words. Following the words with the mouse from the bubble to the mouse, the child must coordinate the mouse with the bubble.

that during the mouse makes a change on the screen. Each of the eight activities ends with fun songs.

Reader Rabbit's Preschool

Reader Rabbit's Preschool has four groups of activities: the Counting Game, Pattern Game, ABC Game and Shape Game. Playing and exploring the games leads to a final game: a key, which can be used to unlock the magical treasure found on the start page. There are also four levels of play.

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KIDS

each of which build confidence and improve skills.

Grade learning more about shapes, letters, patterns or numbers, preschool children also learn to develop the longer attention span needed to play with more complex learning programs. Like the toddler program, songs and the action of seven animals add to the fun and provide a reward for continuing play.

One of the animals in the Counting Club is a bear in a sweater; it is the first time I have seen a "physically challenging" character in a learning game. Like this character, the screen art designed these programs as fresh and fun.

Reader Rabbit's Kindergarten

Reader Rabbit's Kindergarten's theme is "going camping." Ask to go to the Disc Library, Number Land, Get Your Bearings or the Camp Match to earn more for the Campy Happy Trails party supply list. One activity is Get Your Bearings; this player is "made Tapsa live up" so he will donate some party items. They must find the same clock by clicking on squares in a grid to see what is behind each. Along the way they are prompted to look to the right of the page etc.



play occurs in difficulty. After all 12 items have been found, the campfire party begins.

said they find the same clock, and make Tapsa live up.

While they are working their way through the activities, they can click on the camp list to see what items are colored in (found), and what is not. As items are earned, the levels of play increase in difficulty. After all 12 items have been found, the campfire party begins.

which includes songs, ghost stories and poems. All these change the second time the program is completed.

Both the Preschool and Kindergarten programs have a "POP" (Progress Options Path) screen that lets parents check the child's progress by using a reward of when and how many activities have been completed. Activities include reading, patterns, sorting, and spatial tests.

The bottom line is that The Learning Co. has produced three new programs with interactive activities that are a bargain at the list price. Highly recommended? ☐



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MCSE

With Windows NT capturing such a big share of the network market, properly trained and certified MCSEs are in demand. LexTe's MCSE software prepares you in every aspect for your certification. The software has six modules; each module contains hundreds of questions that are similar to the final certification program.

CNE

LexTe's Computer Instructor is a Box CNE software has all seven modules containing the information you need to obtain your certification. The simulations and networks in this CBT allow you to gain hands-on experience at your own PC.



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Pentium 150	... \$1,229
Pentium 166	... \$1,299
Pentium 200	... \$1,499

K6 WORKSTATION


- 2003 Dell D800 Processor
- Intel TMM Board, 4MBT P230, Ultra-4
- 2000 3M 8000, 5/100 PoEplus Cable
- 2.104 Intel 400 (2000/4) Intel Board
- 2.17 3M 8000, 5/100 PoEplus Cable
- 2.18 3M 8000, 5/100 PoEplus Cable
- 2.19 3M 8000, 5/100 PoEplus Cable
- 2.20 3M 8000, 5/100 PoEplus Cable
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- 2.93 3M 8000, 5/100 PoEplus Cable
- 2.94 3M 8000, 5/100 PoEplus Cable
- 2.95 3M 8000, 5/100 PoEplus Cable
- 2.96 3M 8000, 5/100 PoEplus Cable
- 2.97 3M 8000, 5/100 PoEplus Cable
- 2.98 3M 8000, 5/100 PoEplus Cable
- 2.99 3M 8000, 5/100 PoEplus Cable
- 3.00 3M 8000, 5/100 PoEplus Cable

AMD K6-144MHz...\$1,699
133MHz / 64MB
AMD K6-200MHz...\$1,799
133MHz / 64MB
AMD K6-233MHz...\$1,899
133MHz / 64MB

AMD

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The next revolution in graphics technology is here today! The new **Monitors** **Myntek 220 Business** and **Millennium II** accelerators deliver the most powerful all-in-one solution for corporate and professional 2D/3D applications. The **Myntek 220** delivers best cost, performance and high reliability at an affordable price! And the **Millennium II** delivers the highest graphics performance at a fraction of the cost. So go ahead. Ask for Monitors products at **America's Best**. **Monitors** is the only manufacturer in **Video Technology** **ARCHIVE** - **See** **Monitors** at **Top Video Performance**.

Mystique 220 Business
2MB 508AM...\$175
4MB 508AM...\$225

4MB VRAM . . . \$350
8MB VRAM . . . \$400

PC Computing

MMX POWERSTATION

- [illegible]

Fontana ROMA 146 "2, 0.000 Fontana ROMA 200 "2, 2.000
Fontana MAXI 733 "2, 4.400

PENTIUM II SUPERSTATION

- Intel Pentium® II Processor w/512K Cache
- RAM: 64MB 2 Bank, 4400MHz PC100
- 2x30GB 2.5" IDE, 512K Cache
- Western Digital® 2.0GB IDE Hard Drive
- 3.5" Floppy Drive
- Diamond® Stealth® III Pro Video w/AGP 1GB EISA & TV Output
- 34" CRT 15" H-DC
- On Board Sound/Modem 76.8Kbps & Speaker
- ATI Radeon™ 7500, 232MB Frame Buffer
- 104 Keyboard & Ergonomic Mouse
- 2 Year Parts/Labor Warranty

PENTRAM 1 - 225MG: 12.17¢ or \$78.21/month
PENTRAM 1 - 265MG: 12.37¢ or \$85.50/month
Insurance not included

TOSHIBA NOTEBOOKS

- [illegible]

ROTHSCHILD ACCESSORIES

- [illegible]

MONITORS

- | | | |
|-----------|--------------------|------|
| Age 1-17 | Non-Indigenous | 5.1% |
| Age 1-17 | Indigenous | 5.0% |
| Age 1-17 | Median (3.38/3.64) | 9.0% |
| Age 18-64 | Non-Indigenous | 5.6% |
| Age 18-64 | Indigenous | 5.1% |
| Age 18-64 | Median (3.38/3.64) | 5.9% |
| Age 65+ | Non-Indigenous | 5.4% |
| Age 65+ | Indigenous | 5.0% |
| Age 65+ | Median (3.38/3.64) | 5.0% |

VIDEO CARDS

- | | | |
|-----------------------------------|--------|-----|
| 12.00 MegaByte 1600 SCSI 13MB ... | 1,300 | 94 |
| 12.00 MegaByte 240 240MB ... | 1,700 | 97 |
| 12.00 MegaByte 240 240MB ... | 1,900 | 100 |
| 12.00 MegaByte 240 240MB ... | 2,100 | 103 |
| 12.00 MegaByte 240 240MB ... | 2,300 | 106 |
| 12.00 MegaByte 240 240MB ... | 2,500 | 109 |
| 12.00 MegaByte 240 240MB ... | 2,700 | 112 |
| 12.00 MegaByte 240 240MB ... | 2,900 | 115 |
| 12.00 MegaByte 240 240MB ... | 3,100 | 118 |
| 12.00 MegaByte 240 240MB ... | 3,300 | 121 |
| 12.00 MegaByte 240 240MB ... | 3,500 | 124 |
| 12.00 MegaByte 240 240MB ... | 3,700 | 127 |
| 12.00 MegaByte 240 240MB ... | 3,900 | 130 |
| 12.00 MegaByte 240 240MB ... | 4,100 | 133 |
| 12.00 MegaByte 240 240MB ... | 4,300 | 136 |
| 12.00 MegaByte 240 240MB ... | 4,500 | 139 |
| 12.00 MegaByte 240 240MB ... | 4,700 | 142 |
| 12.00 MegaByte 240 240MB ... | 4,900 | 145 |
| 12.00 MegaByte 240 240MB ... | 5,100 | 148 |
| 12.00 MegaByte 240 240MB ... | 5,300 | 151 |
| 12.00 MegaByte 240 240MB ... | 5,500 | 154 |
| 12.00 MegaByte 240 240MB ... | 5,700 | 157 |
| 12.00 MegaByte 240 240MB ... | 5,900 | 160 |
| 12.00 MegaByte 240 240MB ... | 6,100 | 163 |
| 12.00 MegaByte 240 240MB ... | 6,300 | 166 |
| 12.00 MegaByte 240 240MB ... | 6,500 | 169 |
| 12.00 MegaByte 240 240MB ... | 6,700 | 172 |
| 12.00 MegaByte 240 240MB ... | 6,900 | 175 |
| 12.00 MegaByte 240 240MB ... | 7,100 | 178 |
| 12.00 MegaByte 240 240MB ... | 7,300 | 181 |
| 12.00 MegaByte 240 240MB ... | 7,500 | 184 |
| 12.00 MegaByte 240 240MB ... | 7,700 | 187 |
| 12.00 MegaByte 240 240MB ... | 7,900 | 190 |
| 12.00 MegaByte 240 240MB ... | 8,100 | 193 |
| 12.00 MegaByte 240 240MB ... | 8,300 | 196 |
| 12.00 MegaByte 240 240MB ... | 8,500 | 199 |
| 12.00 MegaByte 240 240MB ... | 8,700 | 202 |
| 12.00 MegaByte 240 240MB ... | 8,900 | 205 |
| 12.00 MegaByte 240 240MB ... | 9,100 | 208 |
| 12.00 MegaByte 240 240MB ... | 9,300 | 211 |
| 12.00 MegaByte 240 240MB ... | 9,500 | 214 |
| 12.00 MegaByte 240 240MB ... | 9,700 | 217 |
| 12.00 MegaByte 240 240MB ... | 9,900 | 220 |
| 12.00 MegaByte 240 240MB ... | 10,100 | 223 |
| 12.00 MegaByte 240 240MB ... | 10,300 | 226 |
| 12.00 MegaByte 240 240MB ... | 10,500 | 229 |
| 12.00 MegaByte 240 240MB ... | 10,700 | 232 |
| 12.00 MegaByte 240 240MB ... | 10,900 | 235 |
| 12.00 MegaByte 240 240MB ... | 11,100 | 238 |
| 12.00 MegaByte 240 240MB ... | 11,300 | 241 |
| 12.00 MegaByte 240 240MB ... | 11,500 | 244 |
| 12.00 MegaByte 240 240MB ... | 11,700 | 247 |
| 12.00 MegaByte 240 240MB ... | 11,900 | 250 |
| 12.00 MegaByte 240 240MB ... | 12,100 | 253 |
| 12.00 MegaByte 240 240MB ... | 12,300 | 256 |
| 12.00 MegaByte 240 240MB ... | 12,500 | 259 |
| 12.00 MegaByte 240 240MB ... | 12,700 | 262 |
| 12.00 MegaByte 240 240MB ... | 12,900 | 265 |
| 12.00 MegaByte 240 240MB ... | 13,100 | 268 |
| 12.00 MegaByte 240 240MB ... | 13,300 | 271 |
| 12.00 MegaByte 240 240MB ... | 13,500 | 274 |
| 12.00 MegaByte 240 240MB ... | 13,700 | 277 |
| 12.00 MegaByte 240 240MB ... | 13,900 | 280 |
| 12.00 MegaByte 240 240MB ... | 14,100 | 283 |
| 12.00 MegaByte 240 240MB ... | 14,300 | 286 |
| 12.00 MegaByte 240 240MB ... | 14,500 | 289 |
| 12.00 MegaByte 240 240MB ... | 14,700 | 292 |
| 12.00 MegaByte 240 240MB ... | 14,900 | 295 |
| 12.00 MegaByte 240 240MB ... | 15,100 | 298 |
| 12.00 MegaByte 240 240MB ... | 15,300 | 301 |
| 12.00 MegaByte 240 240MB ... | 15,500 | 304 |
| 12.00 MegaByte 240 240MB ... | 15,700 | 307 |
| 12.00 MegaByte 240 240MB ... | 15,900 | 310 |
| 12.00 MegaByte 240 240MB ... | 16,100 | 313 |
| 12.00 MegaByte 240 240MB ... | 16,300 | 316 |
| 12.00 MegaByte 240 240MB ... | 16,500 | 319 |
| 12.00 MegaByte 240 240MB ... | 16,700 | 322 |
| 12.00 MegaByte 240 240MB ... | 16,900 | 325 |
| 12.00 MegaByte 240 240MB ... | 17,100 | 328 |
| 12.00 MegaByte 240 240MB ... | 17,300 | 331 |
| 12.00 MegaByte 240 240MB ... | 17,500 | 334 |
| | | |

MULTIMEDIA

- | | |
|------------------------|-----|
| 175-130-0108 | 50 |
| Perseus 14-108 (3-108) | 510 |
| Perseus 14-108 (Small) | 511 |
| Perseus 14-108 (Large) | 512 |
| Perseus 14-108 (Small) | 513 |
| Perseus 14-108 (Large) | 514 |
| Perseus 14-108 (Small) | 515 |
| Perseus 14-108 (Large) | 516 |
| Perseus 14-108 (Small) | 517 |
| Perseus 14-108 (Large) | 518 |
| Perseus 14-108 (Small) | 519 |
| Perseus 14-108 (Large) | 520 |

MODEMS

- [illegible]

PRINTERS

- [illegible]

NETWORKING

- [illegible]

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32 Megabytes RAM
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Fujitsu Windows Keyboard
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with MMX Technology



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32 Megabytes RAM
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1 MB PCI SVGA Video Card
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104 Key Windows Keyboard
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- Intel Pentium processor 150MHz
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- Complete package for only ...



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Colour Printer

\$1488

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804.501.0320

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804.517.8080

KELWANA

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250.882.3100

BALHARY

15-7004 Woodcroft Tr. SW
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EDMONTON

200-2000 Calgary Tr. S
403.433.2882

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344 Alton St. North
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feature by feature, we match and exceed the highest standards in the industry. From toll free support and on-site service, to pre-loaded software and free internet access, we add value every step of the way. We offer the most comprehensive feature set available and do it all at a price that our competitors

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- Toll-free technical support across Canada

Microsoft
Office 97

- Microsoft's Word
- Microsoft's Excel
- Microsoft's Publisher

Business can operate as always.

The true Small Business Solution comparison ...

Manufacturer Model	Dell NIMGA	IBM CSX	Compaq Presario 4500	HP 55-5966x
Processor	Intel® 146 MMX MMX technology	Intel® 146 MMX MMX technology	Intel® 200 MMX MMX technology	Intel® 166 MMX MMX technology
Memory	32 MB SDRAM	32 MB SDRAM	32 MB SDRAM	32 MB SDRAM
Chip set	486VX	486VX	486VX	486VX
Cache	112K pipeline	256K pipeline	256K pipeline	112K pipeline
Hard drive	2.2 GB	2.1 GB	1.7 GB	1.7 GB
CD-ROM drive	24X	30X	14X	24X
Sound card	SoundBlaster® 16	16-bit	SoundBlaster® 16	SoundBlaster® 16
Modem	56K	33.6K	56K	56K
Monitor	15"	15"	15"	15"
Video Card	16 MBRDRAM	2MB	1MB	2MB 3D
Printer 3D	included	included	included	included
Mouse	MS IntelliMouse	MS IntelliMouse	Compaq	MS IntelliMouse
Warranty	3 yr. 1st year 3 yr.	Parts & labor 1 yr.	Parts & labor 3 yr.	Parts & labor 3 years
On-site service	1st year	No	2nd day	1st year
Price	\$2,629	\$3,499	\$3,265	\$2,299

What do the colors below mean?

To be fair, we used selling prices quoted during the last week of August 1997. We made every effort to compare similar options. And of the important features are listed but each vendor has their own idea of what is and isn't standard.



PERSONAL COMPUTERS

See the IPC SR-5166a small business system at an authorized IPC dealer near you, or for info call: 1.888.4GO.4-IPC

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